

Scout Report sent out



Noted in the N D File



Location map pinned



Approval or Disapproval Letter



Date Completed P. & A. or
operations suspended

6-30-59

Pin changed on location map



Affidavit and Record of A & P



Water Shut-Off Test



Gas-Oil Ratio Test

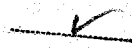


Well Log Filed

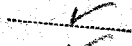


FILE NOTATIONS

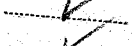
Entered in NID File



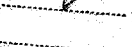
Entered On S R Sheet



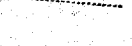
Location Map Pinned



Card Indexed



IWR for State or Fee Land



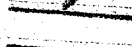
Checked by Chief



Copy NID to Field Office



Approval Letter



Disapproval Letter



COMPLETION DATA:

Date Well Completed

June 30-59

OW ☒ VV

LA

Location Indexed

GW

OS

PA

Bound in Log

State or Fee Land

LOGS FILED

Driller's Log

July 8-59

Electric Log (No.)

1-2

E

I

E-I ☒

GR

GR-N ☒

Micro

Lat

Mi-L

Sonic

Others

	6	X

(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____
Window Rock
Allottee Navajo
Lease No. 14-20-603-372

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 22, 19 59

Navajo 'C'
Well No. #42-6 is located 2089 ft. from N line and 773 ft. from E line of sec. 6

<u>SE NE Sec. 6</u> (¼ Sec. and Sec. No.)	<u>41S</u> (Twp.)	<u>25E</u> (Range)	<u>SL</u> (Meridian)
<u>McElmo Creek</u> (Field)	<u>San Juan</u> (County or Subdivision)	<u>Utah</u> (State or Territory)	

The elevation of the ~~drill floor~~ above sea level is 4751 ft. Ungraded ground.
4742' Graded Ground.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Propose to drill well to test Paradox Formation at a depth of approximately 5780'.

Will set approximately 1200' of 10-3/4" surface pipe.

Will set 7" casing through any commercial production encountered.

Verbal approval by B. J. Shoger May 18, 1959.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Superior Oil Company

Address P. O. Drawer G

Cortez, Colorado

By D. D. Kingman
D. D. Kingman

Title Engineer

THE SUPERIOR OIL CO.

P. O. Drawer G
Cortez, Colorado

June 22, 1959

State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
Salt Lake City 11, Utah

Attention: Mr. Cleon B. Feight

Dear Mr. Feight:

We recently received a letter stating that you have not received a Notice of Intention to Drill for our Navajo 'C' #42-6, located in section 6, T41S, R25E, SLBM, San Juan County, Utah. This well was spudded May 27, 1959, and according to our records the notice was sent out on May 19, 1959. Evidently there has been a mixup somewhere, so we have enclosed two copies of the notice.

Also enclosed are one copy each of the sundry notices on the Navajo 'B' #34-7 well located in section 7, T41S, R24E, SLBM, San Juan County, Utah, the log of oil or gas well is also enclosed.

We will be glad to send you any additional information you might need.

Yours truly,

D. D. Kingman
D. D. Kingman *D.D.*
Engineer

DDk/ba

9

June 23, 1959

The Superior Oil Company
P. O. Drawer G
Cortez, Colorado

Attention: D. D. Kingman, Engineer

Gentlemen:

Thank you for your letter of June 22, 1959 and the enclosed notice of intention to drill for Well No. Navajo C 42-6. Your prompt attention to this matter is greatly appreciated.

To avoid any complications which might arise whereby a hole might be lost, it is suggested that no well should be spudded in without receiving written or verbal approval from this office.

Yours very truly,

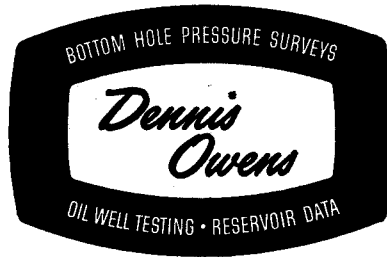
OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
EXECUTIVE SECRETARY

CBF:co

cc: P. T. McGrath, Dist. Eng.
U. S. Geological Survey
Farmington, New Mexico

8



DALLAS, TEXAS
POST OFFICE BOX 10185

July 1, 1959

Dallas: RI-2-2421
Midland: MU-2-5522
 OX-4-3256
Houston: HO-8-4663

Farmington, New Mexico:
 DA-5-6817
 DA-5-8476

The Superior Oil Company
Post Office Box 276
Cortez, Colorado

Subject: Temperature Survey
 Navajo "C" No. 42-6 Well
 Aneth Field
 San Juan County, Utah
 Our File No. 7-283 T

Gentlemen:

On June 21-22, 1959, a temperature survey to locate the cement top was made in the Navajo "C" No. 42-6 Well, Aneth Field.

The results of the testing operation are shown in both tabular and graphical form on the following page.

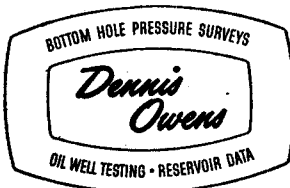
We appreciate your calling upon us to perform this service for you. If we can serve you again in the future, please call.

Very truly yours,

DENNIS OWENS COMPANY

Farrest Tefteller
Farrest Tefteller

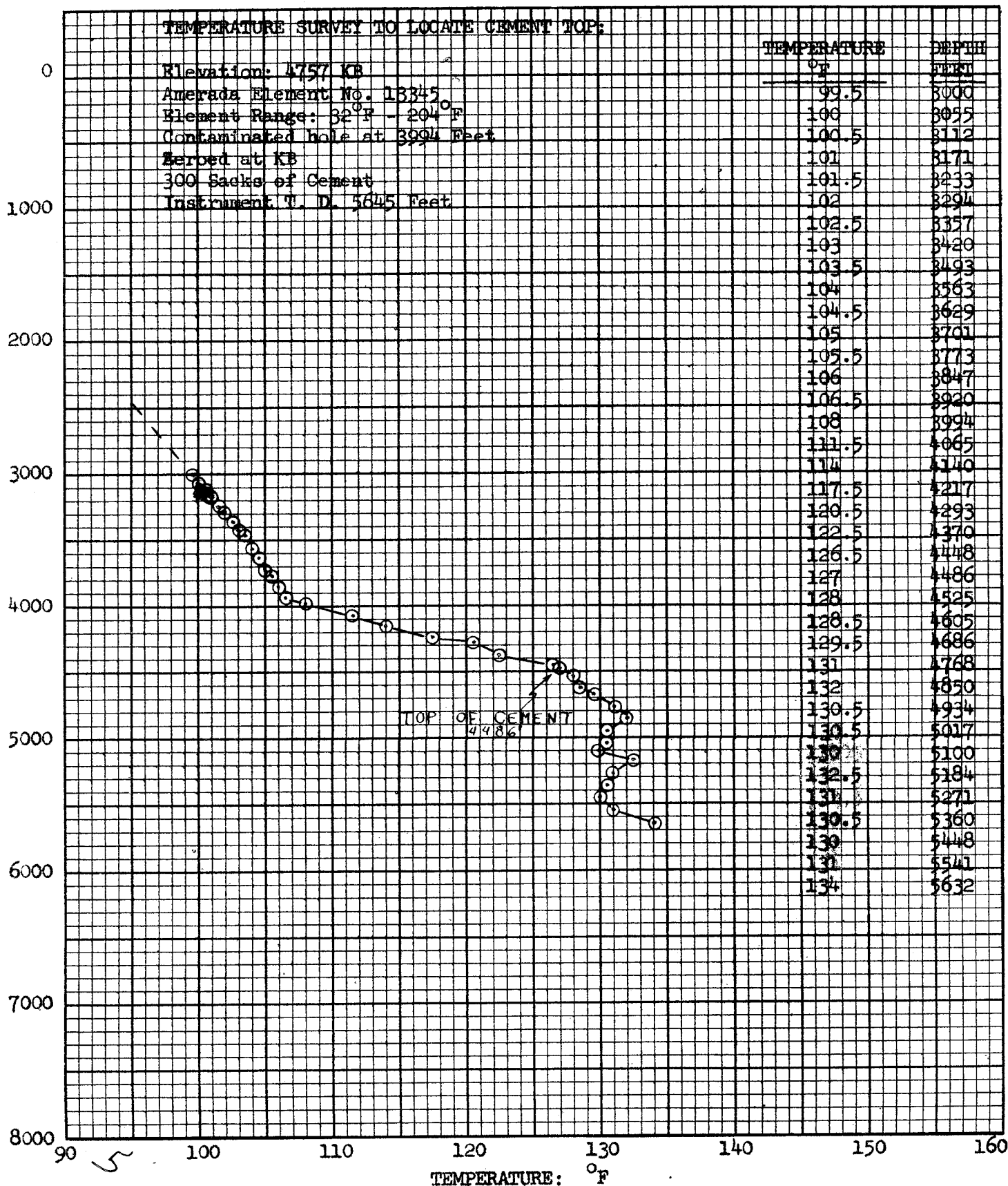
FT:mh
Attachments



Page 1 of 1
File 7-283 T

DALLAS, TEXAS

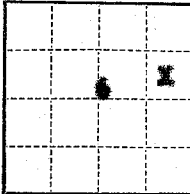
Company THE SUPERIOR OIL COMPANY Lease NAVAJO "C" Well No. 42-6
Field ANETH County SAN JUAN State UTAH
Formation _____ Test Date JUNE 21, 1959



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Window Rock
Allottee Navajo
Lease No. 14-20-603-372



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	IX
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 6, 1959

Navajo 'C' 942-6 is located 2089 ft. from N line and 773 ft. from E line of sec. 6
SE NE Sec. 6 41S 25E SL
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
McElmo Creek San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~XXXXXXXXXX~~ derrick floor above sea level is 4797 ft. Kelly Bushing

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded: May 27, 1959

Completed: June 30, 1959

T.D.: 5770' PBED: 5737'

Casing: 10-3/4' 32.75# set @ 1203' with 300# sacks.
7" 23# set at 5770' with 300 sacks.
Top of cement @ 4486' by temperature survey.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

The Superior Oil Company

Company

P. O. Drawer G

Address

Cortez, Colorado

By D. D. Kingman

Engineer

Title

Electric Log Tops:

De Chelly	2676'	Gothic Shale	5533'
Organ Rock	2789'	Desert Creek	5539' (-782')
Hermosa	4387'	Chimney Rock	5733'
Isany	5395'	Total Depth	5770'

Perforations:

5542'-5564', 5604'-5621', 5638'-5698'

Drill Stem Tests: None

Treatments: 6-28-59: (Perfs 5604'-5698') 800 gals H₂O. M.P. 2000#/1600#.

6-28-59: (Perfs 5604'-5698') 1200 gals retarded acid in 3 equal stages using ~~XXXXX~~ two 300 gallon temporary plugs. M.P. 3600#/2000#.

6-29-59: (Perfs 5542'-5564') 250 gallons H₂O. M.P. 3000#/2000#.

6-29-59: (Perfs 5542'-5564') 3400 gallons retarded acid in 2 equal stages using one 200 gallon temporary plug. M.P. 4000#/2000#.

Tubing: 2 1/2" 6.35 J-55 R-2 3rd EHE hung 5700'
Anchor, Baker Compensating 5533'
R & L Nipple 5528'
Pump Shoe 5527'

Tubing landed on W-4 hanger.

10' pup on bottom - perf'd & bull plugged.

Initial Production:

6-30-59: Flowed 426 barrels in 15 hours.

Gravity 40.7, Cut 1%, 375#/675#, 26/64" choke
25 BPH or 682 BPD rate.

JUL 8 1959

Santa Fe

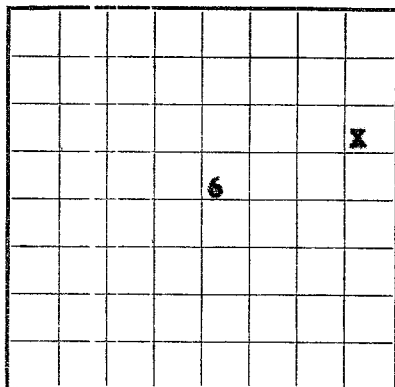
U. S. LAND OFFICE

14-20-603-372

SERIAL NUMBER

Navajo

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Superior Oil Company Address P.O. Drawer G, Cortez, Colorado
Lessor or Tract Navajo 'C' Field McElmo Creek State Utah
Well No. 42-6 Sec. 6 T. 41S R. 25E Meridian SL County San Juan
Location 2089 ft. N. of N Line and 773 ft. E. of E Line of section 6 Elevation 4757 KB
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed D. D. Kingman
Date July 6, 1959 Title Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling May 27, 1959 Finished drilling June 22, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5395 to 5533 No. 4, from _____ to _____
No. 2, from 5539 to 5733 No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10-3/4"	32.75	8	SA	1203'					Surface
It is the policy of the Bureau to place a complete history of the well in the log. If the well has been abandoned, the log should be so marked. If the well has been plugged, the log should be so marked. If the well has been abandoned, the log should be so marked. If the well has been plugged, the log should be so marked.									
							5638	5698	Production
HISTORY OF OIL OR GAS WELL									
TO—33087-3 U. S. GEOLOGICAL SURVEY, BIRMINGHAM OFFICE									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	1203'	500	Circulated to surface.		
7"	5770'	300	Pump & plug.		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from **surface** feet to **5770** feet, and from feet to feet

Cable tools were used from feet to feet, and from feet to feet

DATES

....., 19..... Put to producing **June 30**, 19**59****15 hour test.**The production for the first 24 hours was **682** barrels of fluid of which **99** % was oil; % emulsion; **1** % water; and % sediment. Gravity, °Bé. **40.7**

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

....., Driller **Company Rig #26**, Driller

....., Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
	Electric Log Tops:		
		2676'	De Chelly
		2789'	Organ Rock
		4587'	Hermosa
		5395'	Isaay
		Gothic Shale	5533'
		5539' (-782')	Desert Creek
		5733'	Chimney Rock
		5770'	Total Depth
FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD—Continued

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPL
(Other instructions
verse side)Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-372	
2. NAME OF OPERATOR The Superior Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR P. O. Drawer 'G', Cortez, Colorado		7. UNIT AGREEMENT NAME McElmo Creek	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SE NE Sec. 6, T41S, R25E San Juan County, Utah		8. FARM OR LEASE NAME	
14. PERMIT NO.		9. WELL NO. #M-14	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4759' KB		10. FIELD AND POOL, OR WILDCAT McElmo Creek	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 6, T41S, R25E	
		12. COUNTY OR PARISH San Juan	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐PULL OR ALTER CASING ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐SHOOT OR ACIDIZE ☒ABANDON* ☐REPAIR WELL ☐CHANGE PLANS ☐

(Other)

Squeeze & Reperforate ☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOTING OR ACIDIZING ☐ABANDONMENT* ☐

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Propose to squeeze off all existing perms and drill out to 5630'.

Will re-perforate Desert Creek 5542-64', 5582-87', 5596-5621' and stimulate with 10,000 gallons 28% acid in two 5,000 gallon stages.

Will perforate Ismay formation 5500-08' and stimulate with 2,000 gallons 15% acid.

Production from all zones will be commingled. ✓

18. I hereby certify that the foregoing is true and correct

SIGNED

D. D. Kingman

TITLE Production Engineer

DATE 10/19/65

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

DDK/njh

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPI
(Other instructions
verse side)Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-372	
2. NAME OF OPERATOR THE SUPERIOR OIL COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR P. O. DRAWER 'G', CORTEZ, COLORADO		7. UNIT AGREEMENT NAME McElmo Creek	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SE NE SEC. 6, T41S, R25E SAN JUAN COUNTY, UTAH		8. FARM OR LEASE NAME	
14. PERMIT NO.		9. WELL NO. #M-14	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4759' KB		10. FIELD AND POOL, OR WILDCAT McElmo Creek	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 6, T41S, R25E	
		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING ☒

ABANDONMENT*

(Other) Squeeze & Reperforate

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PBTD - 5631'

10-19-65 Squeeze off all perfs with 500 sacks regular cement with 0.6% Halad #9.
10-21-65 Drilled to 5631', circulate hole clean.
Perforate - 5500-08, 5542-64, 5582-87, 5596-5621.
10-22-65 Acidize perfs 5542-5621' with 10,000 gallons 28% acid in two 5,000 gallon stages.
10-23-65 Swab to clean.
10-24-65 Acidize perfs 5500-08' with 2000 gallons 15% acid.
10-25-65 Squeeze perfs 5500-08' with 100 sacks cement with 0.6% Halad #9.
Stage #2 - Perfs 5500-08' with 75 sacks cement with 0.6% Halad #9.
Stage #3 - Perfs 5500-08' with 150 sacks cement with 0.6% Halad #9.
10-26-65 Drilled from 5486' to 5513'. Circulate hole clean.
10-27-65 B.P. stuck in hole. Milled over B.P.
11-5-65 Drilled out from 5559'-5632'. Circ hole clean. Perf 5542-64, 5582-87, 5596-5621'.
11-6-65 Acidize perfs with 10,000 gal with 28% acid. Swab to clean.
11-7-65 Job complete.

18. I hereby certify that the foregoing is true and correct

SIGNED

D. D. Kingman

TITLE

Production Engineer

DATE Dec. 8, 1965

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

McELMO CREEK UNIT #M-14
2089' FNL, 773' FEL
Section 6, T41S, R25E
San Juan County, Utah

WATER INJECTION WELL

FIELD: McELMO CREEK

KB: 4757' DF: 4756' GL: 4742' PBTD: 5770' TD: 5631' TLD: 13.50'
TOC: 4486' (temp)
SPUDED: 5-27-59 COMPLETED: 6-30-59

INJECTION ZONE: Ismay
Desert Creek Zone I

PERFS: Ismay - 5500-08' w/ 25 shots per foot
Desert Creek Zone I - 5542-64', 5582-87', 5596-5621' (2 jets/ft)

CASING: 10-3/4", 32.75#, H-40 R-2 ST&C w/ 500 sx 40 jts 1203'
7", 23#, J-55 R-2 ST&C w/ 300 sx 184 jts 5770'

TUBING: 175 jts 2-7/8" Nu-Lock lined w/ TK-75. Tail at 5431'.
1 jt 2-7/8" J-55 8R plastic coated. Avg jt length 30.8'

PACKERS: 7" Baker Loc-set at 5427'.

PUMP'G EQUIP: Injection equipment.

REMARKS:

WELL HEAD: 6" Series 600 OCT type T-16

6-28-59	Perf 'd 5604-21', 5638-98' w/ 4 jet/ft., treated w/ 12,000 gal reg acid. Max pressure 800 psi, on vac immediately. Perf 'd 5542-68' w/ 4 jet/ft., treated w/ 3400 gal reg acid. Max pressure 3700#. On vac in 5 min.
10-19/11-6-65	Squeezed all perfs. Perf 'd 5500-08', 5542-64', 5582-87', 5596-5621'. Treated w/ 12,000 gal acid, squeezed 5500-08', re-perf 'd 5542-64', 5582-87', 5596-5621', treated w/ 10,000 gal 28% acid.
1-19-77	Converted to water injection.
10-2-80	Treated through perfs w/ 96 barrels 28% HCL acid. Avg press 1200 psi, ISIP 1050 psi.
8-3/5-81	Replaced Loc-set packer and set 62' higher. Injection water by-passing packer below 5500'.
12-8-81	Perforated Ismay Zone w/ 2 shot/ft from 5500-5508'. Treated all perfs w/ 5000 gal 28% in 5 - 1000 gal stages using blocking agent between states. Avg treating press - 2400 psi, avg rate 6 bbl/min, ISIP - 1700 psi, 10 min SIP 1000 psi.

10-11-82

INITIAL WELL TEST

McELMO CREEK UNIT # M-14

DATE January 30, 1959

OIL BBL/DAY 675

OIL GRAVITY 40.7

GAS CU.FT/DAY

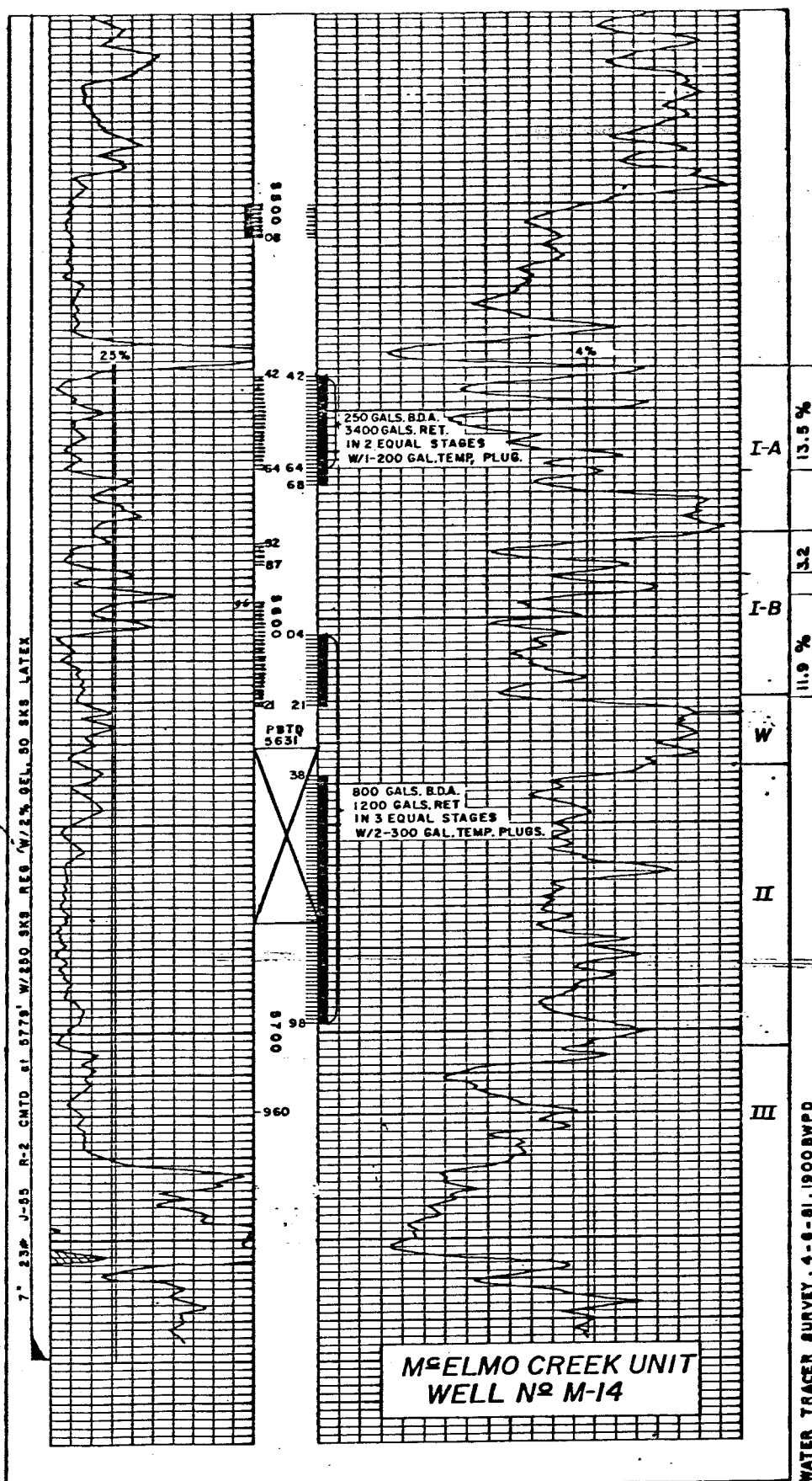
GAS-OIL RATIO CU/FT/BBL

WATER BBL/DAY 7

PUMPING/FLOWING F

CHOKE SIZE 26/64

FLOW TUBING PRESSURE 450



10-19-65: Squeezed at perfs with 500 sacks reg cement with .6% Halad No.9

Perfed 5500-08', 5542-64', 5582-87', 5596-5621'. Acidize perfs. 5542-5621' with 10,000 gals 28 % acid in 2 equal stages: Acidize perfs 5500-08' with 2000 gals. 15% acid.

Squeezed perfs 5500-08' with 100 sacks cement with .6% Halad No.9

Squeezed perfs 5500-08' with 75 sacks cement with .6% Halad No.9

Squeezed perfs 5500-08' with 150 sacks cement with .6% Halad No.9

Drilled out to 5632': perf. 5542-64', 5582-87', 5596-5621'. Acidized with 10,000 Gal with 28 % acid

1-15-77: Pmp 35 bbls F. Water trfd w/K-700 & 475, Put on Water Injection

10-2-80: Trfd. all perfs. w/96 bbls. 28% HCL acid.

8-5-81: Replaced loc-set packer, set 62' higher

12/8/81: Perf'd Ismay w/2 j/ft. at 5500-08'. Trfd all Perfs w/5000 gal. 28% in 5-1000 gal. Stages.

McELMO CREEK UNIT
THE SUPERIOR OIL CO. OPERATOR
SE NE SEC. 6, T41 S, R25 E.
SAN JUAN COUNTY, UTAH.
ELEV. 4759' K.B. T.D. 5770'

Revision : 1-25-77

Water Injection.
Well No. M-14

McElmo Creek Unit

ATTACHMENT I

RULE I-5: Application for Approval of Class II Injection Wells

(a) Well Data Sheets.

- (b) (1) Plat #1.
(2) Well Data Sheets.
(3) Well Data Sheets & Logs.
(4)

i. The average intervening thickness is 4000' between the existing injection interval and the deepest fresh water sand.

ii. Maximum Surface Pressure: 2800 psig.
Maximum Rate: 4000 BWPD.

<u>FORMATION</u>	<u>DEPTH</u>	<u>LITHOLOGY</u>
Chinle	1300' avg.	Shale
DeChelly	2350' avg.	Sandstone
Organ Rock	2600' avg.	Shale
Hermosa	4400' avg.	Limestone
Upper Ismay	5300' avg.	Limestone
Lower Ismay	5370' avg.	Limestone
Gothic	5450' avg.	Shale
Desert Creek	5460' avg.	Limestone
Chimney Rock	5550' avg.	Shale

(5)

(i) A throttling valve is installed on the wellhead to control injection rates and pressures.

(ii) The source of injection water is Superior's production wells within the McElmo Creek Unit. The wells produce from the Ismay and Desert Creek formations with approximate depths of 5300' and 5460' respectively.

(iii) The analysis of injection water is as follows: (as parts per million).

PH: 6.5	Ca: 13770 ppm	SO4: 25 ppm
CL: 16700 ppm	Mg: 11421 ppm	H2S: 30 ppm
Fe: 3 ppm	HC03: 109.8 ppm	Ba: -
CaC03: 18470 ppm	C03: -	Specific Gravity: 1.0553

McElmo Creek Unit

(5) Cont.

(iv) The injection zones are the Ismay and Desert Creek formations. Both zones are carbonate formations consisting of limestone, anhydrite and dolomite. The formations extend throughout the Paradox Basin and are underlain by the Chimney Rock Shale and are overlain by the Hermosa Limestone.

(v) Fresh water zones (Morrison, Bluff, Entrada) range from 0 to 1300' with Entrada being the deepest and somewhat saline.

(vi) The analysis of formation water (Desert Creek) is as follows: (as parts per million).

PH: 6.6	Ca: 17410 ppm	SO4: 33 ppm
CL: 34800 ppm	Mg: 11518 ppm	H2S: 10 ppm
Fe: 1.5 ppm	HCO3: 48.8 ppm	Ba: -
CaCO3: 22150 ppm	CO3: -	Specific Gravity: 1.0902

(6) To assure that injection is confined to intervals intended to receive the disposed water, wireline diagnostic surveys are run periodically to determine whether any escapement is taking place. If such information is discovered, the disposal well will be shut-in until proper measure can be taken. Casing pressure readings are made regularly to verify that no tubing or packer leaks have developed. If such leaks develop, the well will be shut-in until proper repairs can be made.

(7) N/A.

(8) The Division will be notified of the date and time to monitor the mechanical integrity test.

(9) N/A.

(10) N/A.

R24E

R25E

T 40 S

T 41 S

LEGEND

- FUTURE LOCATION
- DRILLING WELL (STATUS)
- OIL WELL
- ▼ WATER INJECTION WELL
- ⊙ DUAL SERVICE, INJ/PROD

O/W CONTACT -960

0 2000' 4000'

McELMO CREEK UNIT

SUPERIOR OIL - WESTERN DIVISION

McELMO CREEK UNIT
SAN JUAN COUNTY, UTAH

SUPERIOR OIL - WESTERN DIVISION

BY: **STRUCTURE**

DATE: 4-14-70

CHECKED: **TOP OF**

DATE: 4-14-70

DRAWING NO.

BY:

DATE:

CHECKED:

SCALE:

C.I.: 25ft.

DRAWN BY:

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Superior Well No. M^cElmo Creek Unit M 14
 County: San Juan T 41S R 25E Sec. 6 API# 43-037-15963
 New Well ☐ Conversion ☐ Disposal Well ☐ Enhanced Recovery Well ☒

	YES	NO
UIC Forms Completed	<u>✓</u>	<u> </u>
Plat including Surface Owners, Leaseholders, and wells of available record	<u>✓</u>	<u> </u>
Schematic Diagram	<u>✓</u>	<u> </u>
Fracture Information	<u> </u>	<u>✓</u>
Pressure and Rate Control	<u>✓</u>	<u> </u>
Adequate Geologic Information	<u>✓</u>	<u> </u>
Fluid Source	<u>Desert Creek - Jernigan</u>	

Analysis of Injection Fluid	Yes <u>✓</u>	No <u> </u>	TDS <u>69,000 +</u>
Analysis of Water in Formation to be injected into	Yes <u>✓</u>	No <u> </u>	TDS <u>79,000 +</u>

Known USDW in area Maryo - Charlie Depth 1300

Number of wells in area of review 11 Prod. 6 P&A 0

Water 0 Inj. 5

Aquifer Exemption Yes NA ✓

Mechanical Integrity Test Yes No ✓

Date Type

Comments:

Reviewed by: CBT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TR
(Other instructions
reverse side)

TE-
re-

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-372

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME
MCELMO CREEK

8. FARM OR LEASE NAME
MCELMO CREEK

9. WELL NO.
M-14

10. FIELD AND POOL, OR WILDCAT
GREATER ANETH

11. SEC. T. R. N., OR BLK. AND
SURVEY OR AREA

Sec. 6, T41S, R25E, SLM

14. PERMIT NO.
43-037-15963

15. ELEVATIONS (Show whether at, on, or etc.)
4757' GL

DIVISION OF OIL
AND GAS

12. COUNTY OR PARISH
SAN JUAN

13. STATE
UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACURE TREAT

MULTIPLE COMPLETE

FRACURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANE

(Other)

(Other) Construct Cathodic Protection System

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

To maximize effective corrosion control of metallic piping and structures down hole and above ground, Mobil Oil Corporation, Agent for Superior Oil Company, proposes to construct an electrified cathodic protection system consisting of a subsurface graphite anode bed connected to an above ground rectifier which has a lead connected to the well casing.

The construction will consist of a trench, 140' long, 6' deep and 2' wide in the old reserve pi area of the well location. All construction will be confined to existing disturbed area of well location. Existing electrical power to the well will be used for this cathodic protection system.

18. I hereby certify that the foregoing is true and correct

SIGNED

Chyle J. Benally

TITLE Sr. Regulatory Coordinator

DATE 11/15/85

(This space for Federal or State office use)

APPROVED BY

Clara B. Feight

TITLE

VP Manager

DATE

12-3-85

CONDITIONS OF APPROVAL, IF ANY:

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

RECEIVED
MAY 16 1986

DIVISION OF
OIL, GAS & MINING

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



R. D. Baker
Environmental Regulatory Manager

CNE/rd
CNE8661

WESTERN REGULATORY WELL COMPLIANCE DATA FILE (PAGE 1 OF 2)
 FOR THE CORTEZ SUPERVISOR AREA
 FOR THE GREATER ANETH FIELD 05/13/86

PROPERTY NAME	WELL NAME	COUNTY	STATE	SEC	TWNSHP	RNG	WELL TYPE	API NUMBER	FEDERAL LEASE NUMBER	STATE NUMBER	UNIT NUMBER
MC ELMO CREEK	I-23	SAN JUAN	UT	NE	SE	13-41S-24E	INJ	OP 43-037-16352	14-20-603-370		96-004190
	I-25	SAN JUAN	UT	NE	NE	24-41S-24E	INJ	OP 43-037-16353	14-20-603-370		96-004190
	J-11	SAN JUAN	UT	NW	SW	31-40S-25E	INJ	OP 43-037-16354	14-20-603-372		96-004190
	J-13	SAN JUAN	UT	NW	NW	06-41S-25E	INJ	OP 43-037-16355	14-20-603-372		96-004190
	J-15	SAN JUAN	UT	NW	SW	06-41S-25E	INJ	OP 43-037-15954	14-20-603-372		96-004190
	J-17	SAN JUAN	UT	NW	NW	07-41S-25E	INJ	OP 43-037-05595	14-20-603-263		96-004190
	J-19	SAN JUAN	UT	NW	SW	07-41S-25E	INJ	OP 43-037-05550	14-20-603-263		96-004190
	J-21	SAN JUAN	UT	NW	NW	18-41S-25E	INJ	OP 43-037-06547	14-20-603-263		96-004190
	K-14	SAN JUAN	UT	SE	NW	06-41S-25E	INJ	OP 43-037-15956	14-20-603-372		96-004190
	K-18	SAN JUAN	UT	SE	NW	07-41S-25E	INJ	OP 43-037-05583	14-20-603-263		96-004190
	K-20	SAN JUAN	UT	SE	SW	07-41S-25E	INJ	OP 43-037-15503	14-20-603-263		96-004190
	K-22	SAN JUAN	UT	SE	NW	18-41S-25E	INJ	OP 43-037-15504	14-20-603-263		96-004190
	K-22X	SAN JUAN	UT	SE	NW	18-41S-25E	INJ	OP 43-037-30400	14-20-603-263		96-004190
	K-24	SAN JUAN	UT	SE	SW	18-41S-25E	INJ	OP 43-037-05406	14-20-603-263		96-004190
	L-09	SAN JUAN	UT	NW	NE	31-40S-25E	INJ	OP 43-037-16359	14-20-603-372		96-004190
	L-11	SAN JUAN	UT	NW	SE	31-40S-25E	INJ	OP 43-037-15958	14-20-603-372		96-004190
	L-13	SAN JUAN	UT	NW	NE	06-41S-25E	INJ	OP 43-037-15959	14-20-603-372		96-004190
	L-15	SAN JUAN	UT	NW	SE	06-41S-25E	INJ	OP 43-037-15960	14-20-603-372		96-004190
	L-17	SAN JUAN	UT	NW	NE	07-41S-25E	INJ	OP 43-037-05613	14-20-603-263		96-004190
	L-19	SAN JUAN	UT	NW	SE	07-41S-25E	INJ	OP 43-037-05539	14-20-603-263		96-004190
	L-21	SAN JUAN	UT	NW	NE	18-41S-25E	INJ	OP 43-037-05471	14-20-603-263		96-004190
	L-23	SAN JUAN	UT	NE	SE	18-41S-25E	INJ	OP 43-037-15507	14-20-603-263		96-004190
	L-25	SAN JUAN	UT	NW	NE	19-41S-25E	INJ	OP 43-037-15508	14-20-603-264		96-004190
	M-12	SAN JUAN	UT	SE	SE	31-40S-25E	INJ	OP 43-037-15962	14-20-603-372		96-004190
	M-14	SAN JUAN	UT	SE	NE	06-41S-25E	INJ	OP 43-037-15963	14-20-603-372		96-004190
	M-16	SAN JUAN	UT	SE	SE	06-41S-25E	INJ	OP 43-037-15361	14-20-603-372		96-004190
	M-18	SAN JUAN	UT	SE	NE	07-41S-25E	INJ	OP 43-037-15510	14-20-603-263		96-004190
	M-20	SAN JUAN	UT	SE	SE	07-41S-25E	INJ	OP 43-037-15511	14-20-603-263		96-004190
	N-07	SAN JUAN	UT	NE	SW	29-40S-25E	INJ	OP 43-037-05819	I-149-IND-8839-A		96-004190
	N-09	SAN JUAN	UT	NW	NW	32-40S-25E	INJ	OP 43-037-15964	14-20-603-372		96-004190

UTAH DIVISION OF OIL, GAS AND MINING
CASING-BRADENHEAD TEST

OPERATOR: ME PNA

FIELD: Greater Aneth LEASE: M^cElmo Creek

WELL # M-14 NAV, C42-6 SEC. 6 TOWNSHIP 41S RANGE 25E

STATE FED. FEE 5770 DEPTH 5431 TYPE WELL INJW MAX. INJ. PRESS. 2800
PBTD 5631

TEST DATE 10/22/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>10³/₄</u>	<u>1203</u>	<u>500</u>	<u>0 #</u>		
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>	<u>7"</u>	<u>5770</u>	<u>300</u>	<u>0 #</u>		
<u>TUBING</u>	<u>2⁷/₈</u>	<u>5431</u>		<u>2000"</u>		

Packer C 5427

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil
Well

☐ Gas
Well

☒ Other

INJECTION WELL

2. Name of Operator

MOBIL OIL CORPORATION

3. Address and Telephone No. %Mobil Exploration & Producing U.S., Inc.

P.O. Box 633 Midland, Texas 79702

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2089' FNL, 773 FEL, SENE Sec. 6, T41S, R25E

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: September 30, 1990

5. Lease Designation and Serial No.

14-20-603-372

6. If Indian, Allottee or Tribe Name

NAVAJO

7. If Unit or CA, Agreement Designation

MCELMO CREEK

8. Well Name and No.

M-14

9. API Well No.

43-037-15963

10. Field and Pool, or Exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

Conversion to CO₂

(Note: Report results of multiple completion on Well Completion or
Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7-15-90 MIRU POOH w/ tbg
7-16-90 Drill & circ.
7-17-90 Set CIBP @5517 Spot 50x plug "B" Neat from 5517-5317
7-18-90 Tag cmt @ 5400' Drill & circ down to 5514. Press csg 1500#
7-19-90 Set cmt ret. @ 5390 Sqz Ismay perms 5500-5508 w/50x "B" w/2% CACHL
7-22 to 7-25-90 Drill cmt.
7-26-90 Drill to PBD Set pkr @ 5538
7-27-90 Acdz D.C. Zone I perms w/5000 gals 13% & 2100 gals diverter
7-29-90 RIH w/prod tbg.
8-1-90 RIH w/pkr Set @5406' Press. Csg to 1000#psi/Held/OK
RDMO

14. I hereby certify that the foregoing is true and correct

Signed Shelley Dodd (915) 688-2585 Title _____

(This space for Federal or State office use)

Approved by _____

Conditions of approval, if any.

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

RECOMMENDED WORK PROCEDURE

WELL NO.	M-14 (Injection Well)
LEASE	McElmo Creek Field
ANNULAR FLUID	Inhibited Produced Fluids
WORKOVER FLUID	Produced Water (or 10 ppg brine)
WT. (LBS/GAL)	8.6
HYD. PRESS	2318 psi
RES. PRESS	est 2200 psi
ZONE	Ismay & Desert Creek

Special Instructions:

*Provide two covered tanks for flow back & kill fluid (400 bbls capacity each). MI one set of pipe racks and $\pm 5650'$ 2-7/8" WS. Ensure EPA has been notified 2 weeks prior to any MIT. Utilize Apollo wireline (Farmington) for resin work and BHST logging. Contact Wayne McPherson (Mobil) for Resin application @ (303) 565-2207.

1. ND wellhead CPC equipment.
2. NU backflow equipment and backflow well to test tank for 3 days prior to moving on well (or until well is static). Kill well w/ 10 ppg brine as necessary.
3. MIRU Big A DDPU. NU BOP w/ adaptor flange (as necessary) w/ 2-7/8" pipe and blind rams on 900 Series wellhead. Insure BOP pressure certified and tested to 3000 psi WP and 5000 psi BP. Use new gasket and all 12 bolts. RU Cyclone tong services w/ 360 degree full radius grip tongs w/ backup.
4. Insure casing annulus and tubing is full of produced water and POOH w/ ± 173 jts 2-7/8" cmt lined tbg and 7" Inverted Lok-Set pkr. Install thread protectors & stand tbg back in derrick. Visually inspect pipe & LD joints w/ flaked cmt or deformed pins/collars. RD Cyclone tongs. Send pkr assembly to Baker for redress.
5. MIRU power swivel/reverse unit (as necessary). PU & GIH w/ 6-1/4" bit, 7" 23# J-55 scraper, & DC's (as necessary) on 2-7/8" WS. DO/CO to PSTD @ 5631'. RD power swivel/reverse unit. POOH & LD DC's, scraper, & bit.
6. RU Apollo wireline. PU & GIH w/ 7" CIBP on wireline setting head. Set CIBP @ 5512'. POOH w/ setting head.
7. PU & GIH w/ CCL/GR/Temp logging tools. Run temp log from 5512'-5400' (or minimum footage charged). Notify Engineer w/ BHST. POOH w/ tools.

8. RU dump bailer on wireline. Mix resin/catalyst for BHST from logging run. Dump bail 35 gals resin across perfs 5500'-5508'. RD bailer & wireline unit. RD WO resin 24 hrs. Consult w/ Engineer on resin setting time (more time may be necessary).
9. RU wireline. GIH & tag resin top w/ sinker bar/CCL to insure complete set on resin. If resin top has fallen below 5500', RU dump bailer & dump additional resin to cover perfs. RD wireline.
10. MIRU power swivel/reverse unit (as necessary). PU & GIH w/ 6-1/4" bit & DC's (as necessary) on 2-7/8" WS. Locate and record resin top. DO/CO resin to CIBP @ 5512'. Tie onto tbg w/ pump truck and pressure test resin squeeze to 1000 psi. Notify Engineer w/ results. If resin squeeze holds pressure, DO/CO CIBP. RD power swivel/reverse unit. POOH & LD WS, DC's, & bit. If resin squeeze does not hold pressure, consult w/ Engineer for revised procedure.
11. RU Cyclone tong service w/ 360 degree full radius tongs w/ backup. PU & GIH w/ 2-7/8"x ±10' Fiberglass erosion joint, Guiberson 2-7/8"x 7" G-6 IPC/EPC pkr and Guiberson 2-7/8" XL 316SS O/F tool w/ 1.781" 'F' profile (for 7" csg & lubricated w/ tubing seal grease) on ±173 jts 2-7/8" cmt lined tbg (w/ torque ring couplings & permaserts). Drift all tbg & connections 1.9". Set pkr @ ±5406'. Note: Run 1.781" pump out plug.

Make-up requirements:

1200-1400 ft-lbs to torque ring
2200-2400 ft-lbs into torque ring

12. Sting off of O/F tool and circulate inhibited packer fluid casing annulus. Sting onto O/F tool. If backside is not completely loaded after resetting O/F tool, dump inhibited fluid until annulus is completely loaded. Pressure test annulus to 1000 psi for 30 minutes. Obtain pressure profile (note: 1000 psi must fall within 30-70% of the pressure chart). RD Cyclone full radius tongs w/ backup. **** NOTIFY EPA IN FARMINGTON, NM., PRIOR TO CONDUCTING ****
EPA representative: Ken Lingo.
13. Tie onto tbg. Pressure test tbg to 500 psi below pump out shear for 10 minutes to insure tbg integrity. Pressure up pump plug out bottom.
14. ND BOP & NU injection wellhead. RDMO DDFU. Make all necessary surface connections. Place well on injection.
Target rate = 100 BPD CO2
Max wellhead pressure = 2881 psi.

**McElmo Creek Unit M-14
Proposed Schematic**

KB: 4757'
CL: 4742'
Z: 15' AGL

10-3/4" 32.75# H-40 Cap
R-2 ST&C
Cmt'd to run w/ 500' ann. cmt

1203'

Inhibited Produced Water

Equipment Details

2-7/8" landing jct.
173 jts 2-7/8" S&S 54J-55 Grd EUSK.
Cmt Lined Pipe
2-7/8" 7" XE O/W Tech (216.01)
w/ 1.781" F" profile
2-7/8" 7" Ouburn 6-6 plan (220.01)
2-7/8" Grd F&B Tech (210')

Pic 64402

PERFS

5500'-5500' =
5542'-5554' =
5582'-5587' =
5598'-5601' =
5638'-5638' =

(Temp - Sep'd w/ RESER)

POTD: 5631'

7" 23# J-55 R-2 ST&C Cap
Cmt'd w/ 300' ann. cmt

TD 5770'

CL Mandanville
15 FEB 1983

McElmo Creek Unit M-14
Present Schematic

KB: 4757'
CL: 4742'
Z: 15' AGL

10-3/4" 32.75# H-40 Cap
R-2 ST&C
Cmt'd to surf w/ 500' exc-cmt

1203'

Inhibited Produced Water

Equipment Details:
2-7/8" landing jt.
173 jts 2-7/8" 6.5# J-55 Grade 100
Cmt Lined Pipe
2-7/8" 2-7" NPT Lch Sub-plan

Plot 5431

PERFS

(Isney): 5500'-5508' =
5542'-5554' =
5582'-5587' =
5598'-5621' =

POTD 5431

5538'-5558' =

7" 23# J-55 R-2 ST&C Cap
Cmt'd w/ 300' exc-cmt

TD 5770'

CL Mandanville
15 FEB 1993

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

RECEIVED

MAR 18 1993

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other INJECTION WELL

2. Name of Operator
MOBIL OIL CORPORATION

3. Address and Telephone No.
P O BOX 633 MIDLAND, TX 79702

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2089 FNL, 773 FEL SEC. 6, T41S, R25E

DIVISION OF
OIL GAS & MINING
(915) 688-2585

5. Lease Designation and Serial No.
14-40-603-372

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation
MCELMO CREEK UNIT

8. Well Name and No.
M-14

9. API Well No.
43-037-15963

10. Field and Pool, or Exploratory Area
GREATER ANETH

11. County or Parish, State
SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other SQUEEZE
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*
SEE ATTACHMENT

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE:

3-19-93

BY:

Shirley Todd

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd SHIRLEY TODD

Title ENGINEERING TECHNICIAN

Date 3-11-93

(This space for Federal or State office use)

Approved by

Federal Approval of this

Title

Date

Conditions of approval, if any: Action is Necessary

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

RECEIVED

JUN 14 1993

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other INJECTION WELL

2. Name of Operator
MOBIL OIL CORPORATION

3. Address and Telephone No.
P O BOX 633 MIDLAND, TX 79702

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2089 FNL, 773 FEL SEC. 6, T41S, R25E

5. Lease Designation and Serial No.
14-40-603-372

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation
MCELMO CREEK UNIT

8. Well Name and No.
M-14

9. API Well No.
43-037-15963

10. Field and Pool, or Exploratory Area
GREATER ANETH

11. County or Parish, State

SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other SQUEEZE
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

5-04-93 MIRU NU BOP.
5-05-93 DISPLACE HOLE & TBG W/10# WTR.
5-06-93 PKR HUNG
5-08-93 ATTEMPT TO RETREIVE PLUG F/PKR. SET PLUG IN TBG SUMP BIAL CMT ON TOP OF PLUG.SET ANOTHER PLUG DUMP BAIL CMT ON TOP OF PLUG.
5-09-93 SNUB ING STRING OUT OF HOLE.
5-10-93 SET CIBP @ 5530
5-12-93 TAG TOP OF CMT RET. @ 3118
5-13-93 DRILL OUT CMT RET. CIRC. HOLE CLEAN. SET CMT RET. @ 5406
5-14-93 P.U. BIT SNUB IN HOLE TO RET. DRILL RET, CIRC HOLE CLEAN.
5-15-93 SET RET @ 5404. RETREIVE PLUG F/TBG. PRESS ANN TO 1000 PSI. PUMP ELASTOMER CMT BY HESITATION SQZ. .3 BBLs, .5BBL - 930 PSI, .5 BBL - 930 PSI, .5BBL -960 PSI, .5BBL - 990 PSI, .5BBL - 1000 PSI, .25BBL - 1100 PSI, .25BBL - 1100 PSI. REVERSE OUT TBG W/200 BBLs FW. PRESS CSG TO 1200 PSI.
5-17-93 TIH W/BIT TO CMT RET. @5404. DRILL OUT CMT. RET. & ELASTOMER CMT CLEAN HOLE.
5-18-93 DRILL CMT RET & ELASTOMER TO 5373'
5-19-93 DRIL 5353-5383. BROKE THRU RET. TAGGED RET ON TOP OF CIBP.PRESS TEST SQZ TO 1200 PSI. LOST 300 PSI IN 2 MIN. STILL HOLD 900 PSI BACK PRESS.
5-21-93 DINISH DRLG THRU CIBP. @ 5530. TAGGED SOLID. CIRC. HOLE CLEAN.
5-22-93 SET PKR @ 5413.57. TEST PKR & CSG TO 1000 PSI FOR 30 MIN.. CIRC. PKR FLUID
5-24-93 RIH W/TBG.
5-25-93 ND BOP. RDMO.

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd SHIRLEY TODD

Title ENGINEERING TECHNICIAN

Date 6-30-93

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

DATE: 6-17-93

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

MOBIL EXPLORATION & PRODUCING US, AS AGENT FOR MOBIL OIL CORPORATION

3. Address and Telephone No.

P. O. BOX 633, MIDLAND, TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2089' FNL, 773' FEL; SEC. 6, T41S, R25E

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

14-20-603-372

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

MCELMO CREEK UNIT

8. Well Name and No.

MCELMO CREEK UN M-14

9. API Well No.

43-037-15963

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN

UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

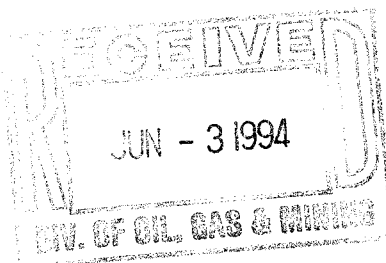
TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other **SI STATUS**
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MOBIL REQUESTS SI STATUS. WAITING ON FUNDING FOR WORKOVER.



14. I hereby certify that the foregoing is true and correct

Signed

D. Irvine for Shirley Todd

Title

ENV. & REG. TECHNICIAN

Date

05/31/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

MOBIL EXPLORATION & PRODUCING US, AS AGENT FOR MOBIL OIL CORPORATION

3. Address and Telephone No.

P. O. BOX 633, MIDLAND, TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2089' FNL, 773' FEL; SEC. 6, T41S, R25E

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8. Well Name and No.

MCELMO CREEK UN M-14

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10. Field and Pool, or exploratory Area

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11. County or Parish, State

SAN JUAN

UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

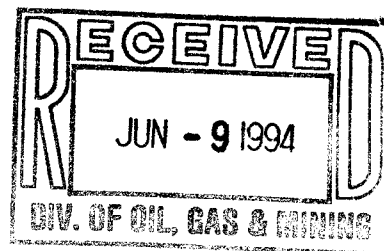
- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other **WORKOVER**
☐ Change of Plans
☐ New Construction
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(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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*** SEE ATTACHED ***

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY



14. I hereby certify that the foregoing is true and correct

Signed

Shirley Dodd

Title

ENV. & REG. TECHNICIAN

Date

06/06/94

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

McElmo Creek M-14
Workover Procedure
(REVISED)

1. Lock and tag out all power sources. RU pump and pump lines to christmas tree. Bullhead 50 bbls of 10 ppg brine into well. Observe well the next day to confirm if well is dead.
2. MI workover rig having 108' derrick. Bleed off casing pressure. Unbolt tree and PU 20,000 lbs tension and rotate 1 turn to the left to close downhole shut off valve. If well is not dead, bleed off tubing pressure to confirm downhole shut off valve is closed.
3. Release on/off tool. ND tree. NU and PT BOP's to 3000 psi high and 250 psi low. Circulate hole to 10 ppg brine. If well was not dead, RU snubbing equipment. Send tree to Big Red Tool, Farmington for inspection and replacement of AB modified teflon seal ring in bottom of tree. Notify Big Red that this tree has leaking valves. Have tree returned in time for use on this well.
4. Release Guiberson Uni-VI packer and POH laying down 2-7/8" J-55 EUE 8rd KCTS fluorolined injection tubing and send to Permian Interprises in Odessa, Texas for inspection and repair cost estimate. Use open rotary type tongs with backup on collar (Do not use Foster type closed rotary tongs). Install thread protectors while laying down tubing. RIH with 6-1/8" rock bit without nozzles and casing scraper for 7", 23 lb/ft casing on 2-7/8" EUE 8rd workstring and CD to PBTD at 5608' EL (Top of Junk). POH.
5. RIH with squeeze packer and set at +/- 5410'. PT casing to 1000 psi for 30 minutes (5 percent leakoff or less is acceptable).
6. If 7" casing failed to PT in Step No. 5, PU 500' and reset squeeze packer. PT backside to 1000 psi. Continue up hole and locate leak. POH. RIH with squeeze packer, 4 joints of 2-3/8" tubing and RBP. Set RBP at 5408'. Set squeeze packer and PT RBP to 2000 psi. PU to +/- 5395. Dump 400 lbs of 20/40 sand down workstring slowly and pump to bottom. Wait 1 hour for sand to fall. Reverse out workstring. RIH and tag top of sand to confirm +/- 10' of sand on top of RBP. PU and set tubing tail +/- 100' above location of casing leak. Set Squeeze packer and space out with 15,000 lbs weight. Pressure backside to 1000 psi and monitor. Establish injection rate of +/- 1-2 BPM using 10 ppg brine at maximum surface injection pressure of 2500 psi. Mix and pump the following:
 - A) 5 bbls of fresh water spacer
 - B) 100 sxs of Class B standard cement containing 0.3% Halad 344, 3% Microbond, 0.1% CFR-3, and sufficient retarder for 3 hour pump time.
 - C) 5 bbls of fresh water spacer

7. Displace top of slurry to end of tailpipe or to a maximum injection pressure of 2500 psi. Stage squeeze last 4 bbls of cement as necessary to obtain a final squeeze pressure of at least 2000 psi. Release squeeze packer and reverse out. POH. WOC 12 hours.
8. RIH with 6-1/8" rock bit without nozzles and casing scraper on 2-7/8" workstring and drill out cement. Clean out to top of sand on top of RPB. PT casing to 1000 psi. POH. Resqueeze as necessary. If PT OK then RIH with retrieving tool on workstring. Wash sand off RPB and retrieve RBP. POH laying down workstring. ND snubbing unit if it was required.
9. RU Schlumberger wireline and lubricator. PT lubricator to 1000 psi or wellhead pressure if higher. RIH with GR/METT/CCL and log from PBTD at 5608' to 4600' or until short casing joints are located. POH.
10. RIH with 4" casing guns loaded with deep penetrating charges at 4 SPF, 90 degree phasing and perforate 5540'-5608'EL. RIH with junk basket/gauge ring to 5420'. POH.

ENGINEERS CALCULATION SHEET

FOR

JOB OR AUTH. NO.

LOCATION

PAGE

SUBJECT

McElmo Creek Unit #M-14

DATE

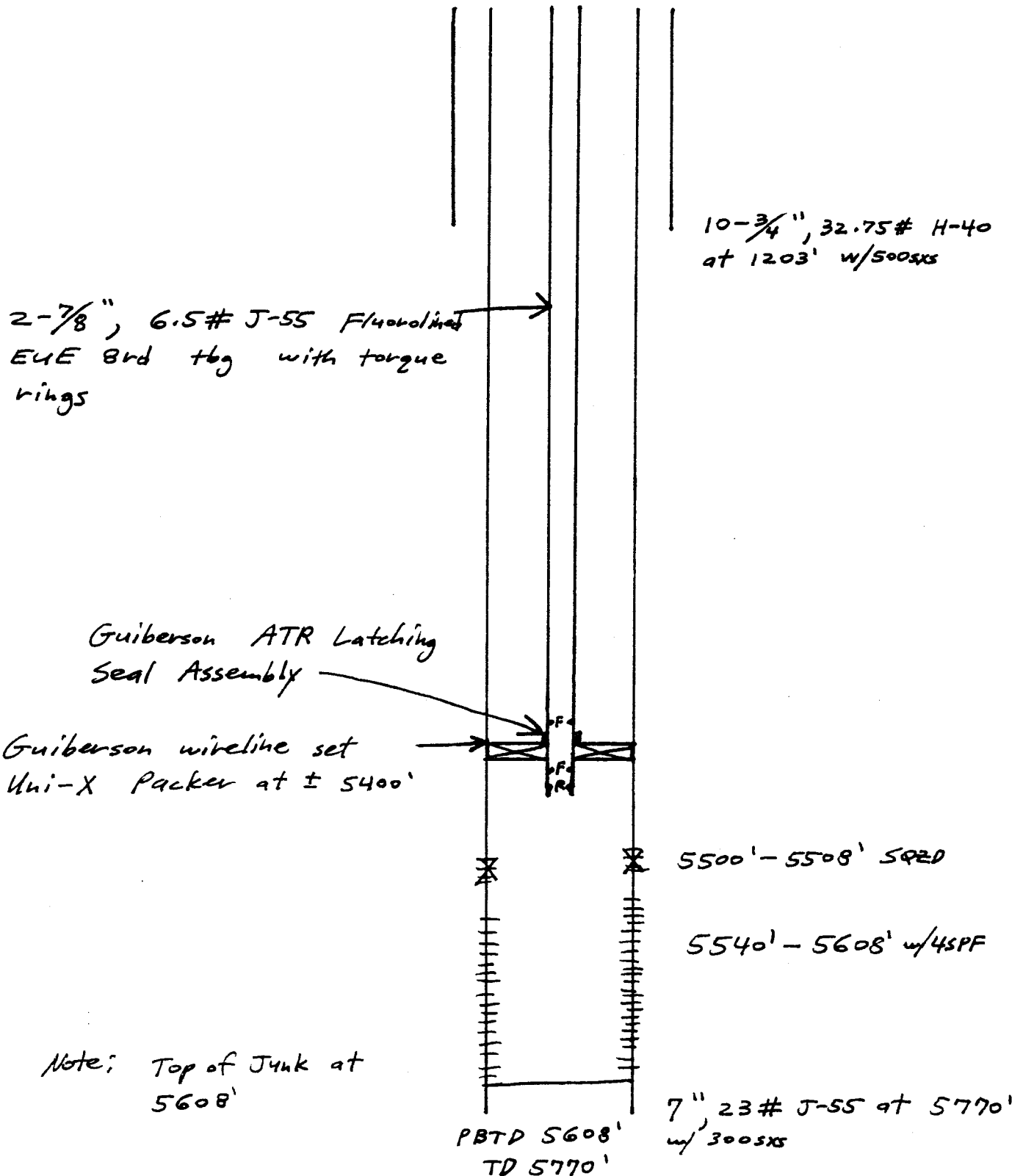
27/May/94

BY

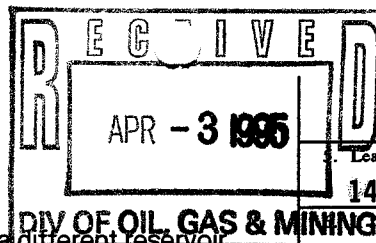
S.S. Murphy

Injection well Repair

PROPOSED



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Lease Designation and Serial No.
14-20-603-372
Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well

☐ Gas Well

☒ Other

INJECTION

2. Name of Operator

**Mobil Exploration & Producing U.S. Inc.
as Agent for Mobil Producing TX & NM Inc.**

3. Address and Telephone No.

P.O. Box 633, Midland, TX 79702

915/688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**2089' FNL 773' FEL
SE SE SEC6-T41S-R25E**

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation
MCELMO CREEK UNIT

8. Well Name and No.

MCELMO CREEK M-14

9. API Well No.

43-037-15963

10. Field and Pool, or exploratory Area

GREATER ANTEH

11. County or Parish, State

SAN JUAN UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

TYPE OF ACTION

☐

Abandonment

☐

Recompletion

☐

Plugging Back

☐

Casing Repair

☐

Altering Casing

☒

Other

WORKOVER

☐

Change of Plans

☐

New Construction

☐

Non-Routine Fracturing

☐

Water Shut-Off

☐

Conversion to Injection

☐

Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

2-14-95 MIRU. CIRC WELL W/ 10# BRINE. TEST CSG TO 1000#, GAINED 100 PSI IN 30 MINS.
2-15-95 N/D TREE, N/U BOPS
2-16-95 POOH & L/D 2 7/8 INJECTION STRING.
2-17-95 TIH W/ 7" SQZ PKR, 2 7/8 WS & SET PKR @ 5379'.
2-18-95 N/U SNUBBING UNIT, POOH W/ PKR, SNUB IN W/ BIT & SCRAPER.
2-20-95 TAG @ 5614'.
2-21-95 PERF 5580-5608 & 5540-5570 W/ 4" CSG GUN W/ 4 SPF. SET PKR @ 5400'.
2-22-95 L/D WORK STRING, RUN 18 JTS INJECTION TBG. 2 7/8 6.5# J55.
2-23-95 RIH W/ SEAL ASSY. & 173 JTS 2 7/8 6.5# J55. RD MO.

14. I hereby certify that the foregoing is true and correct

Signed

Shirley Robertson

Title **ENV & REG TECHNICIAN**

Date **3-29-95**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Tax credit
3/1/95

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

STATE OF UTAH
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
✓MEPNA (MOBIL	43-037-30974	G-21A	41S	24E	13	INJW	Y
✓MEPNA (MOBIL	43-037-16344	E-23	41S	24E	14	INJW	Y
✓MEPNA (MOBIL	43-037-16343	E-21	41S	24E	14	INJW	Y
✓MEPNA (MOBIL	43-037-16353	I-25	41S	24E	24	INJW	Y
✓MEPNA (MOBIL	43-037-16349	G-25	41S	24E	24	INJW	Y
✓MEPNA (MOBIL	43-037-16384	V-15	41S	25E	3	INJI	Y
✓MEPNA (MOBIL	43-037-16383	V-13	41S	25E	3	INJW	Y
✓MEPNA (MOBIL	43-037-16157	U-16	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16148	R-13	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16149	R-15	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16378	T-13	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16379	T-15	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16156	U-14	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16152	S-16	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16151	S-14	41S	25E	4	INJW	Y
✓MEPNA (MOBIL	43-037-16365	O-14	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15969	O-16	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-16363	N-15	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15966	N-13	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15975	Q-16	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15974	Q-14	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15972	P-15	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-16368	P-13	41S	25E	5	INJW	Y
✓MEPNA (MOBIL	43-037-15960	L-15	41S	25E	6	INJI	Y
✓MEPNA (MOBIL	43-037-16355	J-13	41S	25E	6	INJW	Y
✓MEPNA (MOBIL	43-037-15959	L-13	41S	25E	6	INJW	Y
✓MEPNA (MOBIL	43-037-15963	M-14	41S	25E	6	INJI	Y
✓MEPNA (MOBIL	43-037-15957	K-16	41S	25E	6	INJI	Y
✓MEPNA (MOBIL	43-037-15954	J-15	41S	25E	6	INJI	Y
✓MEPNA (MOBIL	43-037-15956	K-14	41S	25E	6	INJW	Y
✓MEPNA (MOBIL	43-037-16361	M-16	41S	25E	6	INJW	Y
✓MEPNA (MOBIL	43-037-15498	J-17	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15511	M-20	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15510	M-18	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15505	L-19	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16360	L-17	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15503	K-20	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16357	K-18	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-16356	J-19	41S	25E	7	INJW	Y
✓MEPNA (MOBIL	43-037-15519	P-17	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-15515	N-19	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-15514	N-17	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-15520	P-19	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-15517	O-18	41S	25E	8	INJW	Y
✓MEPNA (MOBIL	43-037-16373	R-19	41S	25E	9	INJW	Y
✓MEPNA (MOBIL	43-037-15976	R-17	41S	25E	9	INJI	Y
✓MEPNA (MOBIL	43-037-16380	T-17	41S	25E	9	INJW	Y
✓MEPNA (MOBIL	43-037-16374	R-21	41S	25E	16	INJW	Y
✓MEPNA (MOBIL	43-037-31439	P-23A	41S	25E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15516	N-21	41S	25E	17	INJW	Y
✓MEPNA (MOBIL	43-037-16369	P-21	41S	25E	17	INJW	Y
✓MEPNA (MOBIL	43-037-16364	N-23	41S	25E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15507	L-23	41S	25E	18	INJW	Y

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ **Well File** _____
 (Location) Sec _____ Twp _____ Rng _____
 (API No.) _____

☐ **Suspense**
 (Return Date) _____
 (To - Initials) _____

☒ **Other**
OPER NM CHG _____

1. Date of Phone Call: 8-3-95 Time: _____

2. DOGM Employee (name) L. CORDOVA (Initiated Call ☐)
 Talked to:

Name R. J. FIRTH (Initiated Call ☒) - Phone No. () _____
 of (Company/Organization) _____

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation: _____

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING
NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT
THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.

*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

RECEIVED
MAY 16 1986

DIVISION OF
OIL, GAS & MINING

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



CNE/rd
CNE8661

R. D. Baker
Environmental Regulatory Manager

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing

1-LEC	7-PL
2-LWP	8-SJ
3-DES	9-FILE
4-VLC	
5-RJF	
6-LWP	

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator **XXX Operator Name Change Only**

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-2-95)

TO (new operator) **MOBIL EXPLOR & PROD**
 (address) **C/O MOBIL OIL CORP**
PO DRAWER G
CORTEZ CO 81321
 phone **(303) 564-5212**
 account no. **N7370**

FROM (former operator) **M E P N A**
 (address) **C/O MOBIL OIL CORP**
PO DRAWER G
CORTEZ CO 81321
 phone **(303) 564-5212**
 account no. **N7370**

Well(s) (attach additional page if needed):

Name: ** SEE ATTACHED **	API: <u>037-15963</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: _____.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- LWP 6. Cardex file has been updated for each well listed above. 8-21-95
- LWP 7. Well file labels have been updated for each well listed above. 9-28-95
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)
- Lee 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Lee 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) (no) (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) ** No Fee Lease Wells at this time!*

- N/A/ Lee 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: October 4 1995.

FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950803 UIC F5/Not necessary!

ExxonMobil Production Company

U.S. West

P.O. Box 4358

Houston, Texas 77210-4358

June 27, 2001

ExxonMobil
Production

Mr. Jim Thompson
State of Utah, Division of Oil, Gas and Mining
1549 West North Temple
Suite 1210
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

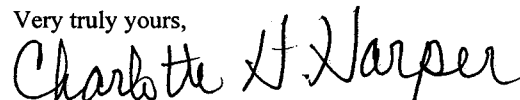
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,



Charlotte H. Harper
Permitting Supervisor

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

RECEIVED

JUN 29 2001

DIVISION OF
OIL, GAS AND MINING



IN REPLY REFER TO:

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

XXXXXXXXXXXXXXXXXXXX
Navajo Area Office
NAVAJO REGION

P.O. Box 1060

Gallup, New Mexico 87305-1060

AUG 30 2001

RRES/543

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor
Exxon Mobil Production Company
U. S. West
P. O. Box 4358
Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of \$75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

DENNET DENETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures ✓
Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

MINERAL RESOURCES	
ADM	<i>[Signature]</i>
NATV AMN COORD	
SOLID MIN TEAM	
PETRO MENT TEAM <i>2</i>	
O & G INSPECTION TEAM	
ALL TEAM LEADERS	
LAND RESOURCES	
ENVIRONMENT	
FILES	

ExxonMobil Production Company
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

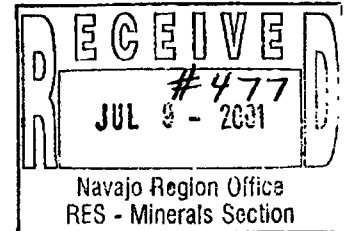
7/12/2001
543
File

June 27, 2001

Certified Mail
Return Receipt Requested

Ms. Genni Denetsone
United States Department of the Interior
Bureau of Indian Affairs, Navajo Region
Real Estate Services
P. O. Box 1060
Gallup, New Mexico 87305-1060
Mail Code 543

ExxonMobil
Production



Change of Name –
Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of \$75/-, Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

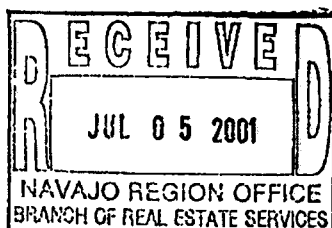
If you have any questions, please contact Alex Correa at (713) 431-1012.

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

Attachments



ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Isasi

Bureau of Indian Affairs
Navajo Region Office
Attn: RRES - Mineral and Mining Section
P.O. Box 1060
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

OFFICERS

President	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Vice President	<u>K.T. Koonce</u>	Address <u>800 Bell Street Houston, TX 77002</u>
Secretary	<u>F.L. Reid</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Treasure	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>

DIRECTORS

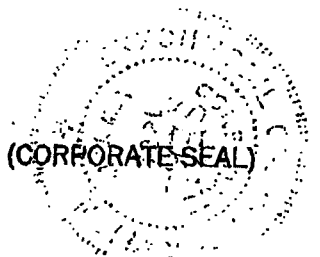
Name	<u>D.D. Humphreys</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>P.A. Hanson</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>T.P. Townsend</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>


Sincerely,



Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is true and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800) 927-9800, whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218




Signature
AGENT AND ATTORNEY IN FACT
Title

SAL

CERTIFICATION

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

CHANGE OF COMPANY NAME

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:


"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;

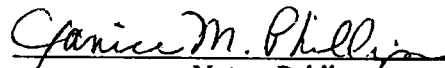
FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

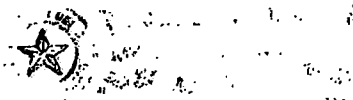
WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.


Assistant Secretary

COUNTY OF DALLAS)
STATE OF TEXAS)
UNITED STATES OF AMERICA)

Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.


Notary Public



LISTING OF LEASES OF MOBIL OIL CORPORATION**Lease Number**

- 1) 14-20-0603-6504
- 2) 14-20-0603-6505
- 3) 14-20-0603-6506
- 4) 14-20-0603-6508
- 5) 14-20-0603-6509
- 6) 14-20-0603-6510
- 7) 14-20-0603-7171
- 8) 14-20-0603-7172A
- 9) 14-20-600-3530
- 10) 14-20-603-359
- 11) 14-20-603-368
- 12) 14-20-603-370
- 13) 14-20-603-370A
- 14) 14-20-603-372
- 15) 14-20-603-372A
- 16) 14-20-603-4495
- 17) 14-20-603-5447
- 18) 14-20-603-5448
- 19) 14-20-603-5449
- 20) 14-20-603-5450
- 21) 14-20-603-5451

6/1/01

CHUBB GROUP OF INSURANCE COMPANIES

Chubb Group of Insurance Companies
1000 West Loop South, Suite 1900, Houston, Texas 77027-3301
Telephone: (713) 297-4600 • Facsimile: (713) 297-4760

NW Bond

FEDERAL INSURANCE COMPANY RIDER
to be attached to and form a part of

BOND NO 8027 31 97

wherein

Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is
named as Principal and

FEDERAL INSURANCE COMPANY AS SURETY,

in favor of **United States of America, Department of the Interior**
Bureau of Indian Affairs

in the amount of **\$150,000.00**
bond date: 11/01/65

IT IS HEREBY UNDERSTOOD AND AGREED THAT effective June 1, 2001
the name of the Principal is changed

FROM: Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.

TO : ExxonMobil Oil Corporation

All other terms and conditions of this Bond are unchanged.

Signed, sealed and dated this 12th of June, 2001.

ExxonMobil Oil Corporation

By: 

FEDERAL INSURANCE COMPANY

By: 

Mary Pierson, Attorney-in-fact

**Chubb
Surety****POWER
OF
ATTORNEY****Federal Insurance Company
Vigilant Insurance Company
Pacific Indemnity Company****Attn.: Surety Department
15 Mountain View Road
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint **R.F. Bobo**,
Mary Pierson, **Philana Berros**, and **Jody E. Specht** of **Houston, Texas**-----

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this **10th** day of **May**, 2001.


 Kenneth C. Wendel, Assistant Secretary


 Frank E. Robertson, Vice President


STATE OF NEW JERSEY } ss.
 County of Somerset

On this **10th** day of **May**, 2001, before me, a Notary Public of New Jersey, personally came **Kenneth C. Wendel**, to me known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**, the companies which executed the foregoing Power of Attorney, and the said **Kenneth C. Wendel** being by me duly sworn, did depose and say that he is Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with **Frank E. Robertson**, and knows him to be Vice President of said Companies; and that the signature of **Frank E. Robertson**, subscribed to said Power of Attorney is in the genuine handwriting of **Frank E. Robertson**, and was thereto subscribed by authority of said **Kenneth C. Wendel** and **Frank E. Robertson** in the presence of said Notary Public.



Notary Public State of New Jersey
 No. 2231647

Commission Expires **Oct 28, 2004**


 Karen Price
 Notary Public

Extract from the By-Laws of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, **Kenneth C. Wendel**, Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this **12th** day of **June**, 2001




 Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY
 Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

CSC

5184334741

06/01 '01 08:46 NO.410 03/05

CSC

06/01 '01 09:06 NO.135 02/04

F010601000187

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
MOBIL OIL CORPORATION

CSC 45

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

FIRST: That the name of the corporation is MOBIL OIL CORPORATION and that said corporation was incorporated under the name of Standard Oil Company of New York.

SECOND: That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

THIRD: That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st The corporate name of said Company shall be,
ExxonMobil Oil Corporation",

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.

CSC
CSC

5184334741

06/01 '01 08:47 NO.410 04/05
06/01 '01 09:06 NO.133 03/04

FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.



F. A. Risch, President

STATE OF TEXAS)
COUNTY OF DALLAS)

F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.



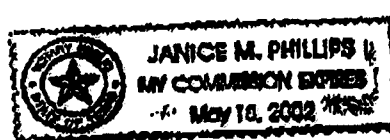
F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]



NOTARY PUBLIC, STATE OF TEXAS



=> CSC

.TEL=5184334741

06/01'01 08:19

CSC
CSC

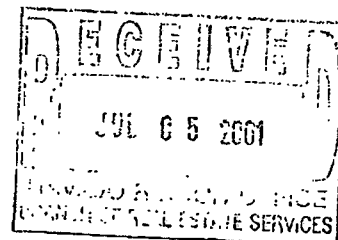
5184334741

06/01 '01 09:01 NO.411 02/02
06/01 '01 09:06 NO.153 04/04
F010601000187**CSC 45****CERTIFICATE OF AMENDMENT****OF****MOBIL OIL CORPORATION**

Under Section 805 of the Business Corporation Law

**STATE OF NEW YORK
DEPARTMENT OF STATE**Filed by: EXXONMOBIL CORPORATION
(Name)

FILED JUN 01 2001

6949 Las Colinas Blvd.
(Mailing address)TAX \$
BY: *SAC*Irving, TX 75039-2298
(City, State and Zip code)*ny Albany**Cust Ref # 165578 MPJ***010601000195**

=> CSC

,TEL=5184334741

06/01 '01 08:19

State of New York }
Department of State } ss:

I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.

Witness my hand and seal of the Department of State on **JUN 01 2001**



Special Deputy Secretary of State

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: **06-01-2001**

FROM: (Old Operator):	TO: (New Operator):
MOBIL EXPLORATION & PRODUCTION	EXXONMOBIL OIL CORPORATION
Address: P O BOX DRAWER "G"	Address: U S WEST P O BOX 4358
CORTEZ, CO 81321	HOUSTON, TX 77210-4358
Phone: 1-(970)-564-5212	Phone: 1-(713)-431-1010
Account No. N7370	Account No. N1855

CA No.

Unit:

MCELMO CREEK

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO C 42-6 (MCELMO CREEK M-14)	06-41S-25E	43-037-15963	99990	INDIAN	WI	A
NAVAJO C 11-6 (MCELMO CREEK J-13)	06-41S-25E	43-037-16355	99990	INDIAN	WI	A
NAVAJO C-2 (MCELMO CREEK M-16)	06-41S-25E	43-037-16361	99990	INDIAN	WI	A
NAVAJO 114-6 (MCELMO CREEK J-17)	07-41S-25E	43-037-15498	99990	INDIAN	WI	A
MCELMO CR K-20	07-41S-25E	43-037-15503	5980	INDIAN	WI	A
MCELMO CR L-19	07-41S-25E	43-037-15505	99990	INDIAN	WI	A
MCELMO CR M-18	07-41S-25E	43-037-15510	5980	INDIAN	WI	A
MCELMO CR M-20	07-41S-25E	43-037-15511	5980	INDIAN	WI	A
MCELMO CR J-19	07-41S-25E	43-037-16356	99990	INDIAN	WI	A
NAVAJO 114-18 (MCELMO CREEK K-18)	07-41S-25E	43-037-16357	99990	INDIAN	WI	A
NAVAJO 114-9 (MCELMO CREEK L-17)	07-41S-25E	43-037-16360	99990	INDIAN	WI	A
NAVAJO 114-1 (MCELMO CREEK N-17)	08-41S-25E	43-037-15514	99990	INDIAN	WI	A
NAVAJO 114-2 (MCELMO CREEK N-19)	08-41S-25E	43-037-15515	99990	INDIAN	WI	A
NAVAJO 114-11 (MCELMO CREEK O-18)	08-41S-25E	43-037-15517	99990	INDIAN	WI	A
NAVAJO 114-10 (MCELMO CREEK P-17)	08-41S-25E	43-037-15519	99990	INDIAN	WI	A
NAVAJO 114-4 (MCELMO CREEK P-19)	08-41S-25E	43-037-15520	99990	INDIAN	WI	A
NAVAJO J 11-9 (MCELMO CREEK R-17)	09-41S-25E	43-037-15976	99990	INDIAN	WI	A
NAVAJO J-2 (MCELMO CREEK R-19)	09-41S-25E	43-037-16373	99990	INDIAN	WI	A
NAVAJO J 31-9 (MCELMO CREEK T-17)	09-41S-25E	43-037-16380	99990	INDIAN	WI	A
NAVAJO J 11-16 (MCELMO CREEK R-21)	16-41S-25E	43-037-16374	99990	INDIAN	WI	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 04/09/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
5. If **NO**, the operator was contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")**

The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 04/16/2002

NOTE: EPA ISSUES UIC PERMITS

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 04/16/2002

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 04/16/2002

3. Bond information entered in RBDMS on: N/A

4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 80273197

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A

2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. DJJ

2. CDW

X Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:		6/1/2006		
<table border="1"> <tr> <td> FROM: (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936 </td> <td> TO: (New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600 </td> </tr> </table>			FROM: (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936	TO: (New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600
FROM: (Old Operator): N1855-ExxonMobil Oil Corporation PO Box 4358 Houston, TX 77210-4358 Phone: 1 (281) 654-1936	TO: (New Operator): N2700-Resolute Natural Resources Company 1675 Broadway, Suite 1950 Denver, CO 80202 Phone: 1 (303) 534-4600			
CA No.	Unit:	MC ELMO (UIC)		

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/7/2006
- Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
- If **NO**, the operator was contacted on: _____
- (R649-9-2) Waste Management Plan has been received on: requested
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/22/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/22/2006
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: 6/22/2006
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: n/a
- Indian well(s) covered by Bond Number: PA002769
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
- The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

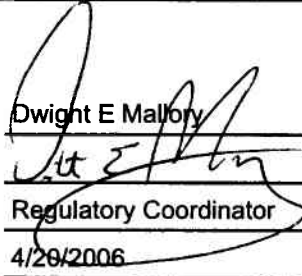
Well Name and Number See attached list	API Number Attached
Location of Well Footage : See attached list County : San Juan QQ, Section, Township, Range: State : UTAH	Field or Unit Name McElmo Creek Unit Lease Designation and Number See attached list

EFFECTIVE DATE OF TRANSFER: 6/1/2006

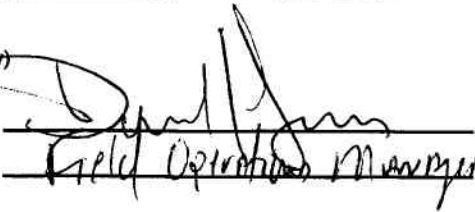
CURRENT OPERATOR

Company: Exxon Mobil Oil Corporation Name: _____
Address: PO Box 4358 Signature: _____
city Houston state TX zip 77210-4358 Title: _____
Phone: (281) 654-1936 Date: _____
Comments: Exxon Mobil has submitted a separate, signed copy of UIC Form 5

NEW OPERATOR

Company: Resolute Natural Resources Company Name: Dwight E Mallory
Address: 1675 Broadway, Suite 1950 Signature: 
city Denver state CO zip 80202 Title: Regulatory Coordinator
Phone: (303) 534-4600 Date: 4/26/2006
Comments: A list of affected UIC wells is attached.
New bond numbers for these wells are:
BIA Bond # PA002769 and US EPA Bond # B001252

(This space for State use only)

Transfer approved by: 
Title: Field Operations Manager

Approval Date: 6/12/06

Comments:

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DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

See attached list

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Navajo Tribe

7. UNIT or CA AGREEMENT NAME:

McElmo Creek Unit

8. WELL NAME and NUMBER:

See attached list

9. API NUMBER:

Attached

10. FIELD AND POOL, OR WILDCAT:

Greater Aneth

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☐

OTHER Unit Agreement

2. NAME OF OPERATOR:

Resolute Natural Resources Company

N2700

3. ADDRESS OF OPERATOR:

1675 Broadway, Suite 1950

CITY

Denver

STATE

CO

ZIP

80202

PHONE NUMBER:

(303) 534-4600

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See attached list

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the McElmo Creek Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the McElmo Creek Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT)

Dwight E. Mallory

TITLE

Regulatory Coordinator

SIGNATURE

DATE

4/20/2006

(This space for State use only)

APPROVED 6/22/06

Earlene Russell

Division of Oil, Gas and Mining

Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED

APR 24 2006

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: ExxonMobil Oil Corporation <u>N1855</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Ship Rock</u>
3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77210-4358</u>		7. UNIT or CA AGREEMENT NAME: <u>UTU68930A</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: _____		8. WELL NAME and NUMBER: <u>McElmo Creek</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		9. API NUMBER: <u>attached</u>
COUNTY: <u>San Juan</u>		10. FIELD AND POOL, OR WILDCAT: <u>Aneth</u>
STATE: <u>UTAH</u>		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/1/2006</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, McElmo Creek lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of injection wells included in the transfer.

NAME (PLEASE PRINT) <u>Laurie Kilbride</u>	TITLE <u>Permitting Supervisor</u>
SIGNATURE <u>Laurie B. Kilbride</u>	DATE <u>4/19/2006</u>

(This space for State use only)

APPROVED 6/22/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
APR 21 2006

DIV. OF OIL, GAS & MINING

GREATER ANETH FIELD UIC WELL LIST
McElmo Creek lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
MCELMO CREEK	H11	430371635000S1	Active	14-20-0603-6145	NW	SE	36	40S	24E	1855FSL	2100FEL
MCELMO CREEK	I12	430371561900S1	Active	14-20-0603-6145	SE	SE	36	40S	24E	0595FSL	0595FEL
MCELMO CREEK	F11	430371561700S1	Shut-in	14-20-0603-6146	NW	SW	36	40S	24E	1885FSL	0820FWL
MCELMO CREEK	G12	430371561800S1	Active	14-20-0603-6146	SE	SW	36	40S	24E	1910FNL	2051FWL
MCELMO CREEK	D15	430371634100S1	Active	14-20-0603-6147	NW	SE	2	41S	24E	1830FSL	1830FEL
MCELMO CREEK	A17	430371633800S1	Active	14-20-0603-6148	NE	NE	10	41S	24E	1270FNL	0660FEL
MCELMO CREEK	C14	430371626500S1	Active	14-20-0603-6509	SE	NW	2	41S	24E	2140FNL	2140FWL
MCELMO CREEK	D13	430371626700S1	Active	14-20-0603-6510	NW	NE	2	41S	24E	0820FNL	1920FEL
MCELMO CREEK	E14	430371626800S1	Active	14-20-0603-6510	SE	NE	2	41S	24E	2050FNL	0500FEL
MCELMO CREEK	T08	430371637700S1	Shut-in	14-20-603-2048A	SW	SE	28	40S	25E	0660FSL	1980FEL
MCELMO CREEK	R09	430371614700S1	Active	14-20-603-2057	NW	NW	33	40S	25E	0500FNL	0625FWL
MCELMO CREEK	R11A	430373017900S1	Active	14-20-603-2057	NW	SW	33	40S	25E	2030FSL	0680FWL
MCELMO CREEK	R13	430371614800S1	Active	14-20-603-2057	NW	NW	4	41S	25E	0660FNL	0660FWL
MCELMO CREEK	R15	430371614900S1	Active	14-20-603-2057	NW	SW	4	41S	25E	1990FSL	0500FWL
MCELMO CREEK	S10	430371637500S1	Active	14-20-603-2057	SE	NW	33	40S	25E	1980FNL	1980FWL
MCELMO CREEK	S12	430371615000S1	Active	14-20-603-2057	SE	SW	33	40S	25E	0645FSL	2140FWL
MCELMO CREEK	S14	430371615100S1	Active	14-20-603-2057	SE	NW	4	41S	25E	2005FNL	1820FWL
MCELMO CREEK	S16	430371615200S1	Active	14-20-603-2057	SE	SW	4	41S	25E	0700FSL	1820FWL
MCELMO CREEK	T09A	430373008000S1	Active	14-20-603-2057	NW	NE	33	40S	25E	0940FNL	2035FEL
MCELMO CREEK	T13	430371637800S1	Active	14-20-603-2057	NW	NE	4	41S	25E	0500FNL	2090FEL
MCELMO CREEK	T15	430371637900S1	Active	14-20-603-2057	NW	SE	4	41S	25E	1880FSL	1890FEL
MCELMO CREEK	U10	430371638100S1	Active	14-20-603-2057	SE	NE	33	40S	25E	1980FNL	0610FSL
MCELMO CREEK	U12	430371615500S1	Active	14-20-603-2057	SE	SE	33	40S	25E	0660FSL	0805FEL
MCELMO CREEK	U14	430371615600S1	Active	14-20-603-2057	SE	NE	4	41S	25E	1980FNL	0660FEL
MCELMO CREEK	U16	430371615700S1	Active	14-20-603-2057	SE	SE	4	41S	25E	0550FSL	0745FEL
MCELMO CREEK	V13	430371638300S1	Active	14-20-603-2057	NW	NW	3	41S	25E	0660FNL	0660FWL
MCELMO CREEK	V15	430371638400S1	Active	14-20-603-2057	NW	SW	3	41S	25E	1980FSL	0560FWL
MCELMO CREEK	J17	430371549800S1	Active	14-20-603-263	NW	NW	7	41S	25E	0820FNL	0550FWL
MCELMO CREEK	J19	430371635600S1	Active	14-20-603-263	NW	SW	7	41S	25E	2056FNL	1997FWL
MCELMO CREEK	J21	430371549900S1	Active	14-20-603-263	NW	NW	18	41S	25E	0400FNL	0575FWL
MCELMO CREEK	K18	430371635700S1	Active	14-20-603-263	SE	NW	7	41S	25E	1830FNL	1808FWL
MCELMO CREEK	K20	430371550300S1	Active	14-20-603-263	SE	SW	7	41S	25E	0660FSL	1810FWL
MCELMO CREEK	K22X	430373040000S1	Active	14-20-603-263	SE	NW	18	41S	25E	2082FNL	1588FWL
MCELMO CREEK	K24	430371635800S1	Active	14-20-603-263	SE	SW	18	41S	25E	0660FSL	1801FWL
MCELMO CREEK	L17	430371636000S1	Active	14-20-603-263	NW	NE	7	41S	25E	0660FNL	1980FEL
MCELMO CREEK	L19	430371550500S1	Active	14-20-603-263	NW	SE	7	41S	25E	1860FSL	2140FEL
MCELMO CREEK	L21	430371550600S1	Active	14-20-603-263	NW	NE	18	41S	25E	0820FNL	1980FEL
MCELMO CREEK	L23	430371550700S1	Active	14-20-603-263	NW	SE	18	41S	25E	1980FSL	1980FEL
MCELMO CREEK	M18	430371551000S1	Active	14-20-603-263	SE	NE	7	41S	25E	1850FNL	0790FEL
MCELMO CREEK	M20	430371551100S1	Shut-in	14-20-603-263	SE	SE	7	41S	25E	0660FSL	0660FEL
MCELMO CREEK	N17	430371551400S1	Active	14-20-603-263	NW	NW	8	41S	25E	0810FNL	0660FWL
MCELMO CREEK	N19	430371551500S1	Active	14-20-603-263	NW	SW	8	41S	25E	1850FSL	0500FWL
MCELMO CREEK	N21	430371551600S1	Active	14-20-603-263	NW	NW	17	41S	25E	0660FNL	0660FWL
MCELMO CREEK	O18	430371551700S1	Active	14-20-603-263	SE	NW	8	41S	25E	1830FNL	1890FWL
MCELMO CREEK	P17	430371551900S1	Active	14-20-603-263	NW	NE	8	41S	25E	0660FNL	1980FEL

GREATER ANETH FIELD UIC WELL LIST
McElmo Creek lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
MCELMO CREEK	P19	430371552000S1	Active	14-20-603-263	NW	SE	8	41S	25E	2140FSL	1980FEL
MCELMO CREEK	P21	430371636900S1	Active	14-20-603-263	NW	NE	17	41S	25E	0660FNL	1980FEL
MCELMO CREEK	P23A	430373143900S1	Active	14-20-603-263	SW	NE	17	41S	25E	2531FNL	2325FEL
MCELMO CREEK	L25	430371550800S1	Active	14-20-603-264	NW	NE	19	41S	25E	0660FNL	1980FEL
MCELMO CREEK	R17	430371597600S1	Active	14-20-603-359	NW	NW	9	41S	25E	0740FNL	0560FWL
MCELMO CREEK	R19	430371637300S1	Active	14-20-603-359	NW	SW	9	41S	25E	1980FSL	0660FWL
MCELMO CREEK	R21	430371637400S1	Active	14-20-603-359	NW	NW	16	41S	25E	0511FNL	0562FWL
MCELMO CREEK	T17	430371638000S1	Active	14-20-603-359	NW	NE	9	41S	25E	0675FNL	1933FEL
MCELMO CREEK	E21	430371634300S1	Active	14-20-603-370	NE	NE	14	41S	24E	0660FNL	0660FEL
MCELMO CREEK	E23	430371634400S1	Active	14-20-603-370	NE	SE	14	41S	24E	2031FSL	0711FEL
MCELMO CREEK	G21A	430373097400S1	Active	14-20-603-370	NE	NW	13	41S	24E	0867FNL	1883FWL
MCELMO CREEK	G23	430371634800S1	Shut-in	14-20-603-370	NE	SW	13	41S	24E	2092FSL	1899FWL
MCELMO CREEK	G25	430371634900S1	Active	14-20-603-370	NE	NW	24	41S	24E	0660FNL	1980FWL
MCELMO CREEK	I23	430371635200S1	Active	14-20-603-370	NE	SE	13	41S	24E	1980FSL	0660FEL
MCELMO CREEK	I25	430371635300S1	Active	14-20-603-370	NE	NE	24	41S	24E	0530FNL	0820FEL
MCELMO CREEK	J11	430371635400S1	TA'd	14-20-603-372	NW	SW	31	40S	25E	1980FSL	0660FWL
MCELMO CREEK	J13	430371635500S1	Active	14-20-603-372	NW	NW	6	41S	25E	0621FNL	0580FWL
MCELMO CREEK	J15	430371595400S1	Active	14-20-603-372	NW	SW	6	41S	25E	1980FSL	0500FWL
MCELMO CREEK	K12	430371595500S1	Active	14-20-603-372	SW	SW	31	40S	25E	0670FSL	1970FWL
MCELMO CREEK	K14	430371595600S1	Active	14-20-603-372	SE	NW	6	41S	25E	1851FNL	1885FWL
MCELMO CREEK	K16	430371595700S1	Active	14-20-603-372	SE	SW	6	41S	25E	0660FSL	1816FWL
MCELMO CREEK	L09	430371635900S1	Active	14-20-603-372	NW	NE	31	40S	25E	0660FNL	1980FEL
MCELMO CREEK	L13	430371595900S1	Active	14-20-603-372	NW	NE	6	41S	25E	0778FNL	1917FEL
MCELMO CREEK	L15	430371596000S1	Active	14-20-603-372	NW	SE	6	41S	25E	1820FSL	1830FEL
MCELMO CREEK	M10	430371596100S1	Shut-in	14-20-603-372	SE	NE	31	40S	25E	1980FNL	0530FEL
MCELMO CREEK	M12	430371596200S1	Active	14-20-603-372	SE	SE	31	40S	25E	0590FSL	0585FEL
MCELMO CREEK	M14	430371596300S1	Active	14-20-603-372	SE	NE	6	41S	25E	2089FNL	0773FEL
MCELMO CREEK	M16	430371636100S1	Active	14-20-603-372	SE	SE	6	41S	25E	0660FSL	0660FEL
MCELMO CREEK	N09	430371596400S1	Shut-in	14-20-603-372	NW	NW	32	40S	25E	0628FNL	0615FWL
MCELMO CREEK	N11	430371596500S1	Active	14-20-603-372	NW	SW	32	40S	25E	2069FSL	0618FWL
MCELMO CREEK	N13	430371596600S1	Active	14-20-603-372	NW	NW	5	41S	25E	0840FNL	0505FWL
MCELMO CREEK	N15	430371636300S1	Active	14-20-603-372	NW	SW	5	41S	25E	2140FSL	820FWL
MCELMO CREEK	O12	430371596800S1	Active	14-20-603-372	SE	SW	32	40S	25E	0809FSL	1832FWL
MCELMO CREEK	O14	430371636500S1	Active	14-20-603-372	SE	NW	5	41S	25E	2056FNL	1997FWL
MCELMO CREEK	O16	430371596900S1	Active	14-20-603-372	SE	SW	5	41S	25E	0660FSL	1980FWL
MCELMO CREEK	P09	430371636700S1	Active	14-20-603-372	NW	NE	32	40S	25E	0598FNL	2100FEL
MCELMO CREEK	P11	430371597101S2	Active	14-20-603-372	NW	SE	32	40S	25E	2105FSL	2006FEL
MCELMO CREEK	P13	430371636800S1	Active	14-20-603-372	NW	NE	5	41S	25E	0610FNL	1796FWL
MCELMO CREEK	P15	430371597200S1	Active	14-20-603-372	NW	SE	5	41S	25E	1980FSL	1980FEL
MCELMO CREEK	Q10	430371597301S1	Active	14-20-603-372	SE	NE	32	40S	25E	1899FNL	0532FEL
MCELMO CREEK	Q16	430371597500S1	TA'd	14-20-603-372	SE	SE	5	41S	25E	0660FSL	0660FEL
MCELMO CREEK	F13	430371634500S1	Active	14-20-603-4032	NW	NW	1	41S	24E	0795FNL	0535FWL
MCELMO CREEK	F15A	430373114900S1	Active	14-20-603-4032	NW	SW	1	41S	24E	1920FSL	0624FWL
MCELMO CREEK	G14	430371614300S1	Active	14-20-603-4032	SE	NW	1	41S	24E	1980FNL	1980FWL
MCELMO CREEK	G16	430371614400S1	Active	14-20-603-4032	SE	SW	1	41S	24E	0820FSL	1820FWL
MCELMO CREEK	H13	430371635100S1	Active	14-20-603-4032	NW	NE	1	41S	24E	0540FNL	2110FEL
MCELMO CREEK	I-14	430371614500S1	Active	14-20-603-4032	SE	NE	1	41S	24E	1980FNL	0660FEL

GREATER ANETH FIELD UIC WELL LIST
McElmo Creek lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location							
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot	
MCELMO CREEK	F17	430371549300S1	Active	14-20-603-4039	NW	NW	12	41S	24E	0740FNL	0500FWL	
MCELMO CREEK	G18	430371549400S1	Active	14-20-603-4039	SE	NW	12	41S	24E	1980FNL	1980FWL	
MCELMO CREEK	H15	430371549500S1	Active	14-20-603-4039	NW	SE	1	41S	24E	1980FSL	1980FEL	
MCELMO CREEK	H17	430371549600S1	Active	14-20-603-4039	NE	NW	12	41S	24E	0660FNL	1980FEL	
MCELMO CREEK	I18	430371570900S1	Active	14-20-603-4495	SE	NE	12	41S	24E	1840FNL	0555FEL	
MCELMO CREEK	E19	430371634200S1	Shut-in	14-20-603-5449	NE	SE	11	41S	24E	1980FSL	0660FEL	
MCELMO CREEK	G19	430371634600S1	Active	14-20-603-5450	NE	SW	12	41S	24E	1350FSL	1800FWL	
MCELMO CREEK	I20	430371571000S1	Active	14-20-603-5451	SE	SE	12	41S	24E	0990FSL	0500FEL	
MCELMO CREEK	N07	430371636200S1	Active	I-149-IND-8839	NE	SW	29	40S	25E	2083FSL	745FWL	
MCELMO CREEK	P07	430371636600S1	Active	I-149-IND-8839	NW	SE	29	40S	25E	1820FSL	2140FEL	
MCELMO CREEK	O10	430371596700S1	Active	NOG99041325	SE	NW	32	40S	25E	2086FNL	1944FWL	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NAVAJO C 42-6 (MCELMO M-14)				
2. TYPE OF WORK DRILL NEW WELL <input type="radio"/> REENTER P&A WELL <input type="radio"/> DEEPEN WELL <input checked="" type="radio"/>						3. FIELD OR WILDCAT GREATER ANETH				
4. TYPE OF WELL Water Injection Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME MCELMO CREEK				
6. NAME OF OPERATOR RESOLUTE NATURAL RESOURCES						7. OPERATOR PHONE 303 534-4600				
8. ADDRESS OF OPERATOR 1675 Boradway Ste 1950, Denver, CO, 80202						9. OPERATOR E-MAIL pflynn@resoluteenergy.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1420603372			11. MINERAL OWNERSHIP FEDERAL <input type="radio"/> INDIAN <input checked="" type="radio"/> STATE <input type="radio"/> FEE <input type="radio"/>			12. SURFACE OWNERSHIP FEDERAL <input type="radio"/> INDIAN <input checked="" type="radio"/> STATE <input type="radio"/> FEE <input type="radio"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Shiprock			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="radio"/> (Submit Commingling Application) NO <input checked="" type="radio"/>			19. SLANT VERTICAL <input type="radio"/> DIRECTIONAL <input checked="" type="radio"/> HORIZONTAL <input type="radio"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		2086 FNL 778 FEL		SENE	6	41.0 S	25.0 E	S		
Top of Uppermost Producing Zone		2086 FNL 728 FEL		SENE	6	41.0 S	25.0 E	S		
At Total Depth		2086 FNL 691 FEL		SENE	6	41.0 S	25.0 E	S		
21. COUNTY SAN JUAN			22. DISTANCE TO NEAREST LEASE LINE (Feet) 691			23. NUMBER OF ACRES IN DRILLING UNIT 40				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1500			26. PROPOSED DEPTH MD: 5754 TVD: 5741				
27. ELEVATION - GROUND LEVEL 4751			28. BOND NUMBER B001263			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE lease produced water				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	15	10.75	0 - 1203	32.75	H-40 ST&C	0.0	Class B	500	0.0	0.0
PROD	9	7	0 - 5779	23.0	J-55 Casing/Tubing	0.0	Class B	300	0.0	0.0
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Sherry Glass			TITLE Sr Regulatory Technician			PHONE 303 573-4886				
SIGNATURE			DATE 09/14/2012			EMAIL sglass@resoluteenergy.com				
API NUMBER ASSIGNED 43037159630000			APPROVAL Permit Manager							

Sidetrack for Desert Creek IIC Horizon
McElmo Creek Unit M-14
2086' FNL & 778' FEL
Sec 6, T41S, R25E
San Juan County, Utah
API 43-037-15963
PRISM 0000308

Discussion: *Sidetracking from the existing wellbore is expected to be the most expeditious method of getting past the expected formation damage from earlier cement squeeze work in the DC-IIC target intervals. Kick and drop techniques will be used, with the new wellbore planned to be ~50-60' away from the original borehole at TD. Chinle isolation is included.*

Sidetrack Injection Procedure (Sundry – Notice of Intent)

1. MIRU.
2. Pull & LD injection tubing & packer.
3. Make bit & scraper trip to PBD at 5614'.
4. Run casing inspection log from PBD to 2000', and cement bond log from PBD to 1000'. Confirm TOC and cement quality in the kick off area; Identify the lower MetalSkin™ set depth for the injection packer seat; Confirm the top of Chinle.
5. Set a CIBP at approximately 5400' to isolate current perforations and provide a foundation for a whipstock. Csg inspection & cement bond log will be used to select the final set depth. Pressure test casing.
6. Set a whipstock on top of the CIBP, oriented to 90° azimuth . Cut a 6' to 8' window in the 7" casing .
7. RIH with an adjustable mud motor and bit assembly to begin sidetrack operations.
8. Start drilling the sidetrack, steering the wellbore so as to be approximately 50 feet away from the existing wellbore at the IIC top

(5639' TVD). From there, drill through the IIC to TD w/plain drilling BHA and no mud motor.

9. Drill to a total depth of 5741'TVD, ~7' into the Chimney Rock shale.
10. Run a Gamma Ray/ Neutron log over the open hole section.
11. Stimulate the open hole section of the wellbore.
12. Retrieve whipstock & CIBP.
13. Install lower MetalSkin™ patch for the packer seat.
14. RIH and set injection well BHA: wireline re-entry guide, profile nipple w/plug in place, Arrowset 1-X packer, with on/off tool. This BHA to be set within the lower MetalSkin™ patch.
15. Isolate the lower wellbore and protect the packer assembly by dumping 2 sx sand on top of the packer w/plug.
16. Perforate at least 50' below the top of Chinle formation with 4 spf over a two foot interval.
17. Set CICR at least 50' above the perforated interval.
18. Sting into CICR and attempt to establish circulation to surface with fresh water, through the bradenhead.
19. If circulation is established, circulate cement to surface using 65/35 Pozmix with 100% excess, i.e. calculated volume 250 sx, 100% excess = 500 sx. Volumes will be re-calculated based on actual Chinle Top.
20. If unable to circulate cement to surface, attempt to squeeze a sufficient volume of cement to fill the casing below CICR to the perforated interval, plus 100 ft above top of Chinle using 65/35 Pozmix with 100% excess.
21. Shut in 24 hours to allow cement to cure.

22. Drill out CICR and cement; pressure test repair.
23. Install upper Metalskin™ patch over Chinle perforated interval.
24. Perform “Mock” MIT to confirm integrity.
25. RIH and circulate sand off the injection packer. Displace wellbore to packer fluid.
26. RIH with 2-7/8 inch injection tubing and on/off tool & tie onto the packer.
27. Rig up WL and retrieve plug from packer.
28. RDMOL.
29. Perform witnessed MIT.
30. Return the well to injection.

Job Scope – Isolate existing perforations and sidetrack from the existing wellbore, to 5741' TVD to allow injection into DC-IIC. Stimulate the open hole section and reopen wellbore to original perforations. Perform Chinle isolation. Install an injection bottomhole assembly and return the well to injection in the DC-I & IIA along with the newly opened DC-IIC.

**ADDITIONAL INFORMATION TO SUPPORT
Sundry – Notice of Intent
Mc Elmo Creek Unit M-14
Sidetrack to the DC-IIC Horizon from the vertical wellbore for
Addition of Injection in DC-IIC**

1. Formation Tops

Existing Formation Tops (ft MD):

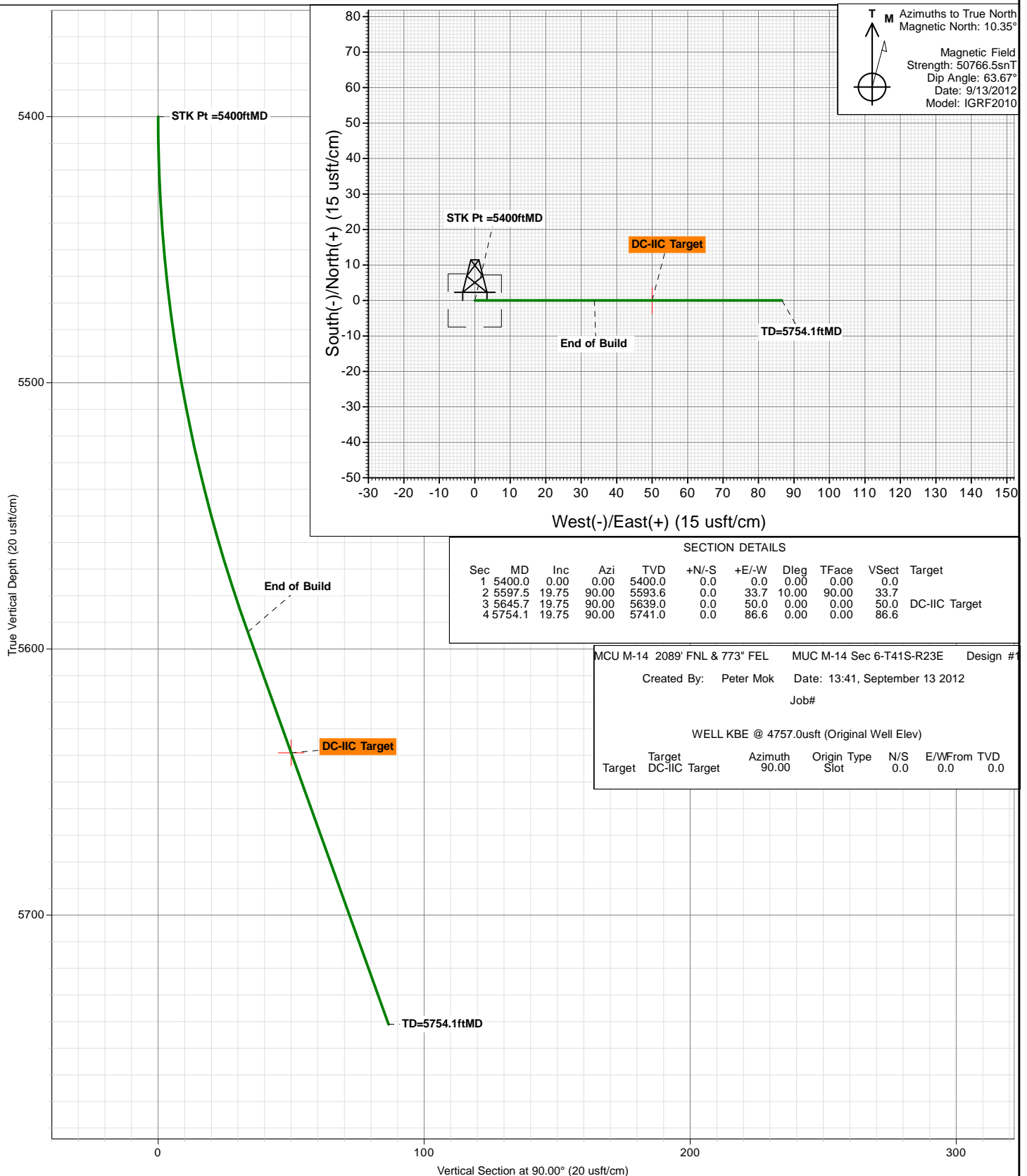
Upper Ismay:	5396
Lower Ismay:	5468
Gothic Shale:	5533
Desert Creek IA:	5543
Desert Creek IB:	5568
Desert Creek IC:	5582
Desert Creek IIA:	5604
Desert Creek IIB:	5621
Desert Creek IIC:	5639
Desert Creek III:	5711
Chimney Rock Shale:	5734

2. Re-entry will be an open hole completion, sidetracked out of cased hole and involves setting a cast iron bridge plug above current perforations, setting a whipstock, drilling to the target depth, stimulating the exposed interval, setting a packer above the sidetrack window, and initiating CO₂ and water injection into the open hole section, along with the original DC-I and DC-IIA perforated sections.
3. Wellbore Diagrams –
 - a) Existing Wellbore Diagram – Attachment No. 1
 - b) Proposed Wellbore Diagram – Attachment No. 2
4. BOP Diagram & Equipment Description – Attachment No. 3
5. Drilling Mud Specifications
 - a) Proposed to use N2 foamed fresh water fluid, in an underbalanced situation, or if conditions warrant,
 - b) CaCl₂ brine water will be used, and if required,

- c) Drilling mud with a salt polymer will be used to control formation pressure during the drilling operations.



Project: McELMO Creek Unit
 Site: MCU M-14 2089' FNL & 773" FEL
 Well: MUC M-14 Sec 6-T41S-R23E
 Wellbore: STK #1
 Design #1





Resolute Natural Resources

**McELMO Creek Unit
MCU M-14 2089' FNL & 773" FEL
MUC M-14 Sec 6-T41S-R23E**

STK #1

Plan: Design #1

Standard Planning Report

13 September, 2012





Planning Report



Database:	EDMDB	Local Co-ordinate Reference:	Well MUC M-14 Sec 6-T41S-R23E
Company:	Resolute Natural Resources	TVD Reference:	WELL KBE @ 4757.0usft (Original Well Elev)
Project:	McELMO Creek Unit	MD Reference:	WELL KBE @ 4757.0usft (Original Well Elev)
Site:	MCU M-14 2089' FNL & 773" FEL	North Reference:	True
Well:	MUC M-14 Sec 6-T41S-R23E	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK #1		
Design:	Design #1		

Project	McELMO Creek Unit		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah South 4303		

Site	MCU M-14 2089' FNL & 773" FEL		
Site Position:		Northing:	239,937.33 usft
From:	Lat/Long	Easting:	2,712,585.33 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	37° 18' 0.000 N
		Longitude:	109° 3' 0.000 W
		Grid Convergence:	1.50 °

Well	MUC M-14 Sec 6-T41S-R23E		
Well Position	+N/-S	0.0 usft	Northing: 239,937.33 usft
	+E/-W	0.0 usft	Easting: 2,712,585.33 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 37° 18' 0.000 N
			Longitude: 109° 3' 0.000 W
			Ground Level: 4,742.0 usft

Wellbore	STK #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/13/2012	10.35	63.67	50,766

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	5,400.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	90.00

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,597.5	19.75	90.00	5,593.6	0.0	33.7	10.00	10.00	45.57	90.00	
5,645.7	19.75	90.00	5,639.0	0.0	50.0	0.00	0.00	0.00	0.00	DC-IIC Target
5,754.1	19.75	90.00	5,741.0	0.0	86.6	0.00	0.00	0.00	0.00	



Planning Report



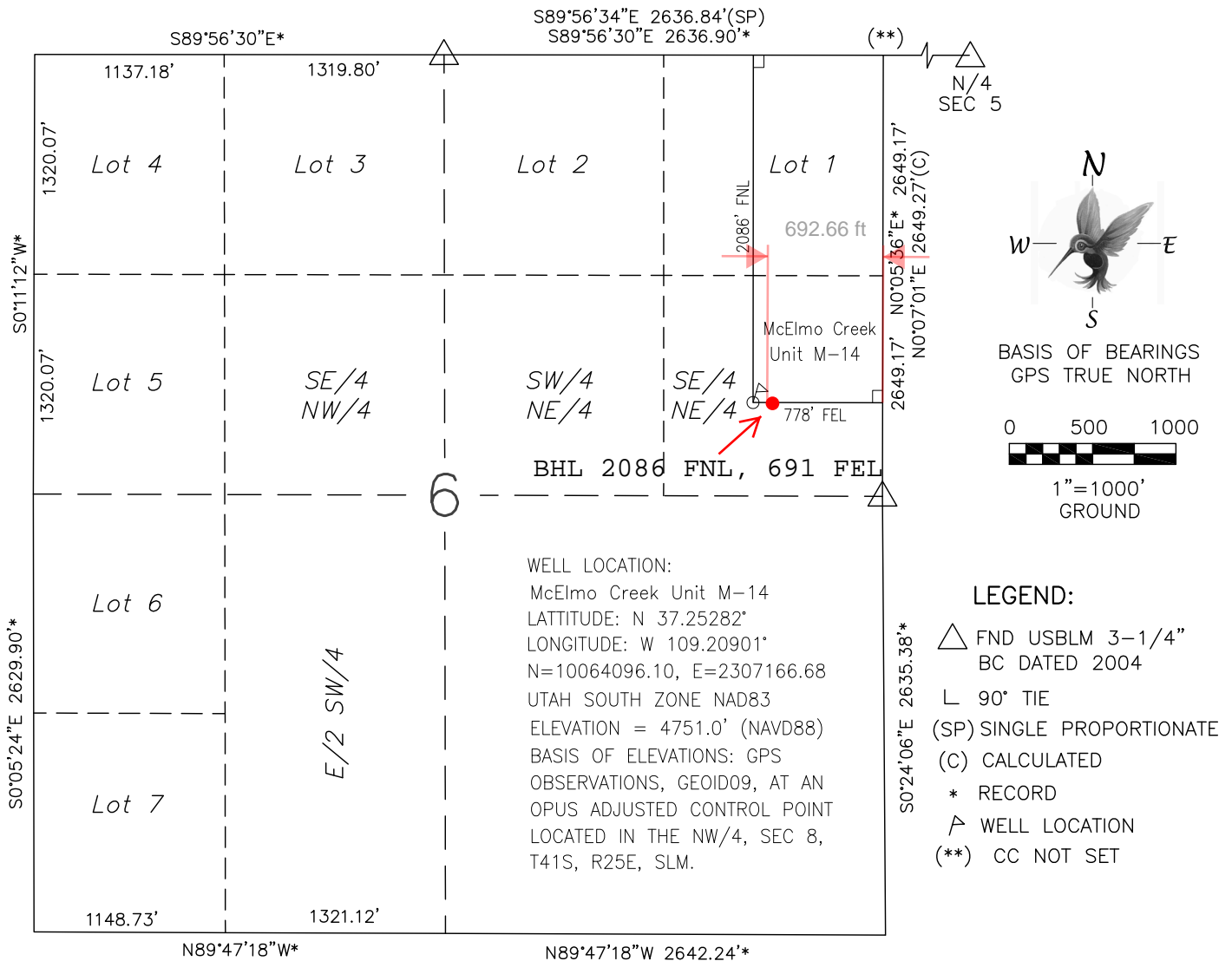
Database:	EDMDB	Local Co-ordinate Reference:	Well MUC M-14 Sec 6-T41S-R23E
Company:	Resolute Natural Resources	TVD Reference:	WELL KBE @ 4757.0usft (Original Well Elev)
Project:	McELMO Creek Unit	MD Reference:	WELL KBE @ 4757.0usft (Original Well Elev)
Site:	MCU M-14 2089' FNL & 773" FEL	North Reference:	True
Well:	MUC M-14 Sec 6-T41S-R23E	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK #1		
Design:	Design #1		

Planned Survey												
Measured Depth (usft)	Incl. (°)	Az. (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Closure Distance (usft)	Dogleg Rate (°/100u)	Build Rate (°/100u)	Turn Rate (°/100u)	Comments/Formations
5,400.0	0.00	0.00	5,400.0	-643.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	STK Pt =5400ftMD
5,412.0	1.20	90.00	5,412.0	-655.0	0.0	0.1	0.1	0.1	10.00	10.00	0.00	
5,510.4	11.04	90.00	5,509.7	-752.7	0.0	10.6	10.6	10.6	10.00	10.00	0.00	
5,597.5	19.75	90.00	5,593.6	-836.6	0.0	33.7	33.7	33.7	10.00	10.00	0.00	End of Build
5,608.8	19.75	90.00	5,604.2	-847.2	0.0	37.5	37.5	37.5	0.00	0.00	0.00	
5,645.7	19.75	90.00	5,639.0	-882.0	0.0	50.0	50.0	50.0	0.00	0.00	0.00	DC-IIC Target
5,707.2	19.75	90.00	5,696.9	-939.9	0.0	70.8	70.8	70.8	0.00	0.00	0.00	
5,754.1	19.75	90.00	5,741.0	-984.0	0.0	86.6	86.6	86.6	0.00	0.00	0.00	TD=5754.1ftMD

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
DC-IIC Target	0.00	0.00	5,639.0	0.0	50.0	239,938.64	2,712,635.31	37° 18' 0.000 N		109° 2' 59.381 W
- hit/miss target										
- Shape										
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
5,400.0	5,400.0	0.0	0.0	STK Pt =5400ftMD	
5,597.5	5,593.6	0.0	33.7	End of Build	
5,754.1	5,741.0	0.0	86.6	TD=5754.1ftMD	

Well Location - McElmo Creek Unit M-14



I, Gerald G. Huddleston, do hereby certify that I am a registered Utah land surveyor holding certificate number 161297 as prescribed under the laws of the State of Utah, and I further certify that under authority of the owner I have surveyed the well location as shown hereon and that the same is correct and true to the best of my knowledge and belief.

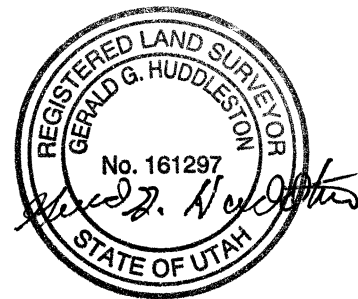
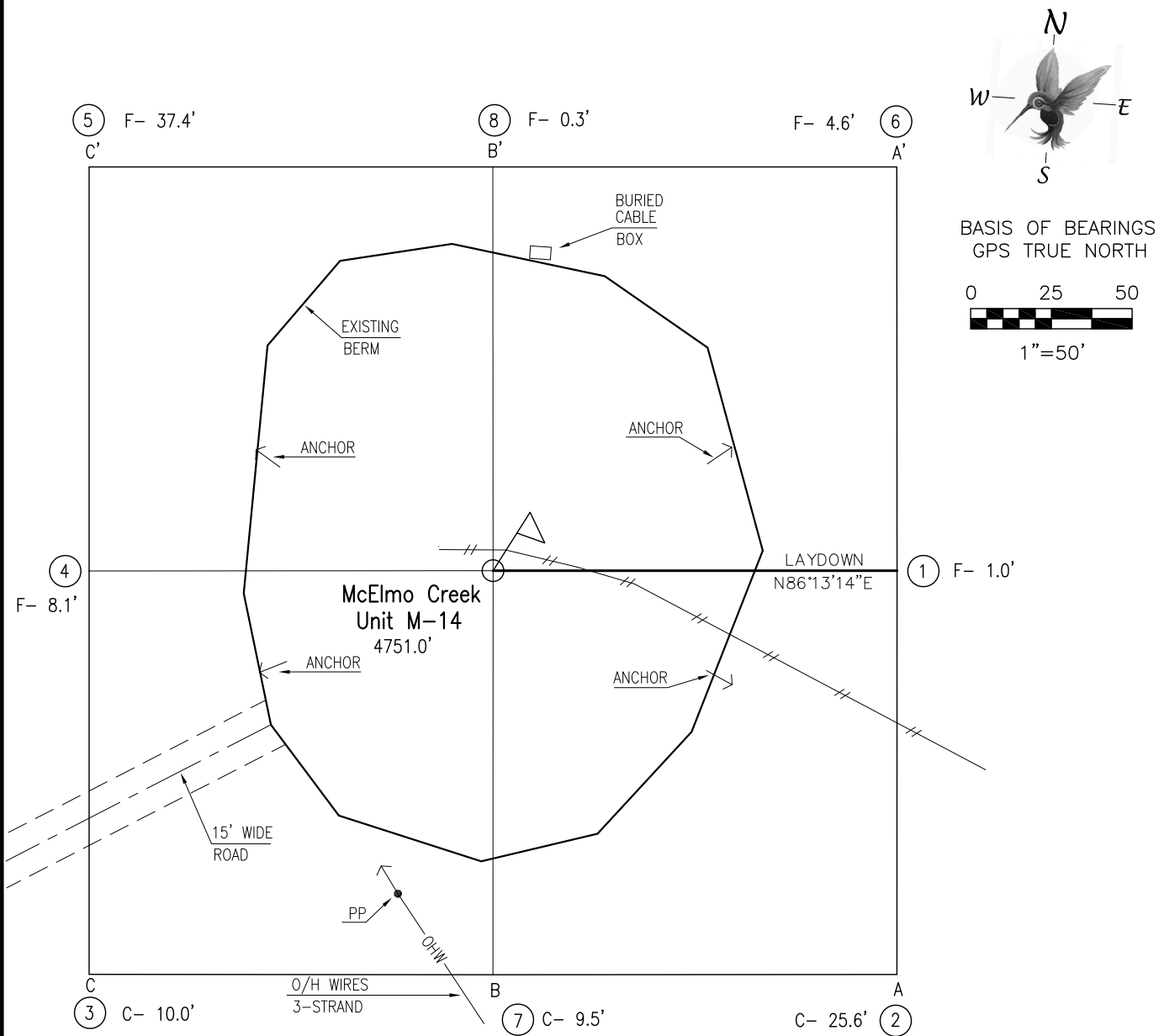


EXHIBIT A

FOOTAGE: 2086' FNL 778' FEL	RESOLUTE NATURAL RESOURCES		
SEC 6, T41S, R25E, SLM, SAN JUAN COUNTY, UT			
LAT: N 37.25282° LON: W 109.20901° (NAD83)	SURVEYED: 08/28/12		
ELEVATION: 4751.0' at ground level (NAVD88)	DRAWN BY: GEL	DATE: 09/08/12	
NOTE: Re—entry of existing well.	REVISION:		
HUMMINGBIRD SURVEYING, LLC --- P.O. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108			

RECEIVED: September 14, 2012

Well Pad - McElmo Creek Unit M-14



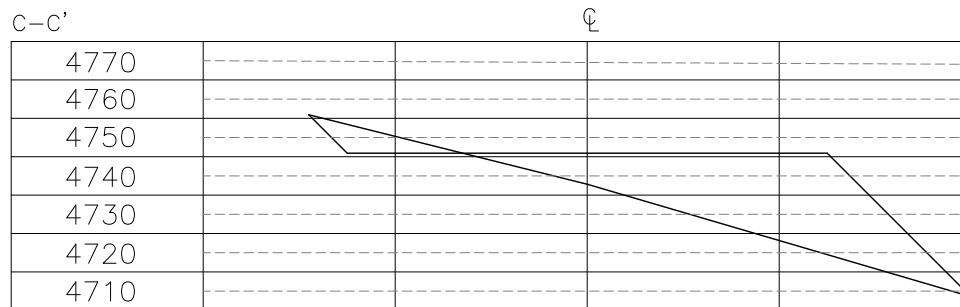
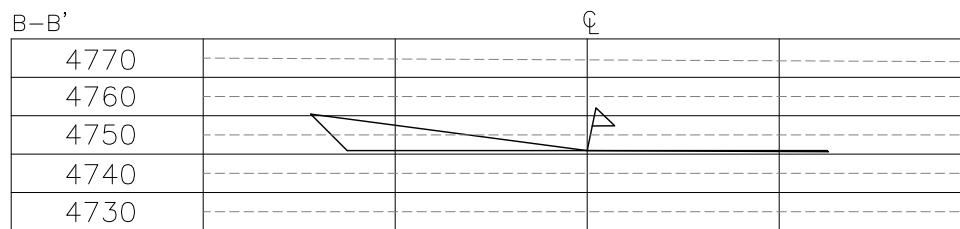
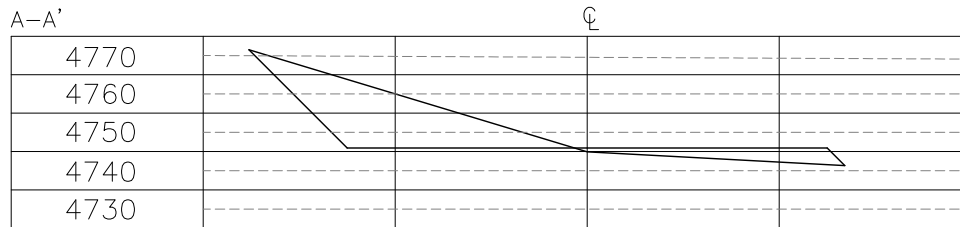
It shall be the responsibility of the Contractor to verify the location, depth and condition of all existing utilities and conduct all necessary field investigations prior to any excavation.
OneCall 800-662-5348

EXHIBIT B

FOOTAGE: 2086' FNL 778' FEL	RESOLUTE NATURAL RESOURCES		
SEC 6, T41S, R25E, SLM, SAN JUAN COUNTY, UT			
LAT: N 37.25282° LON: W 109.20901° (NAD83)	SURVEYED: 08/28/12		
ELEVATION: 4751.0' at ground level (NAVD88)	DRAWN BY: GEL	DATE: 09/08/12	
NOTE: Re—entry of existing well.	REVISION:		
HUMMINGBIRD SURVEYING, LLC --- P.O. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108			

RECEIVED: September 14, 2012

Cross Section - McElmo Creek Unit M-14



HORIZONTAL 1"=100'
VERTICAL 1"=50'

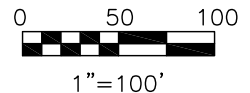


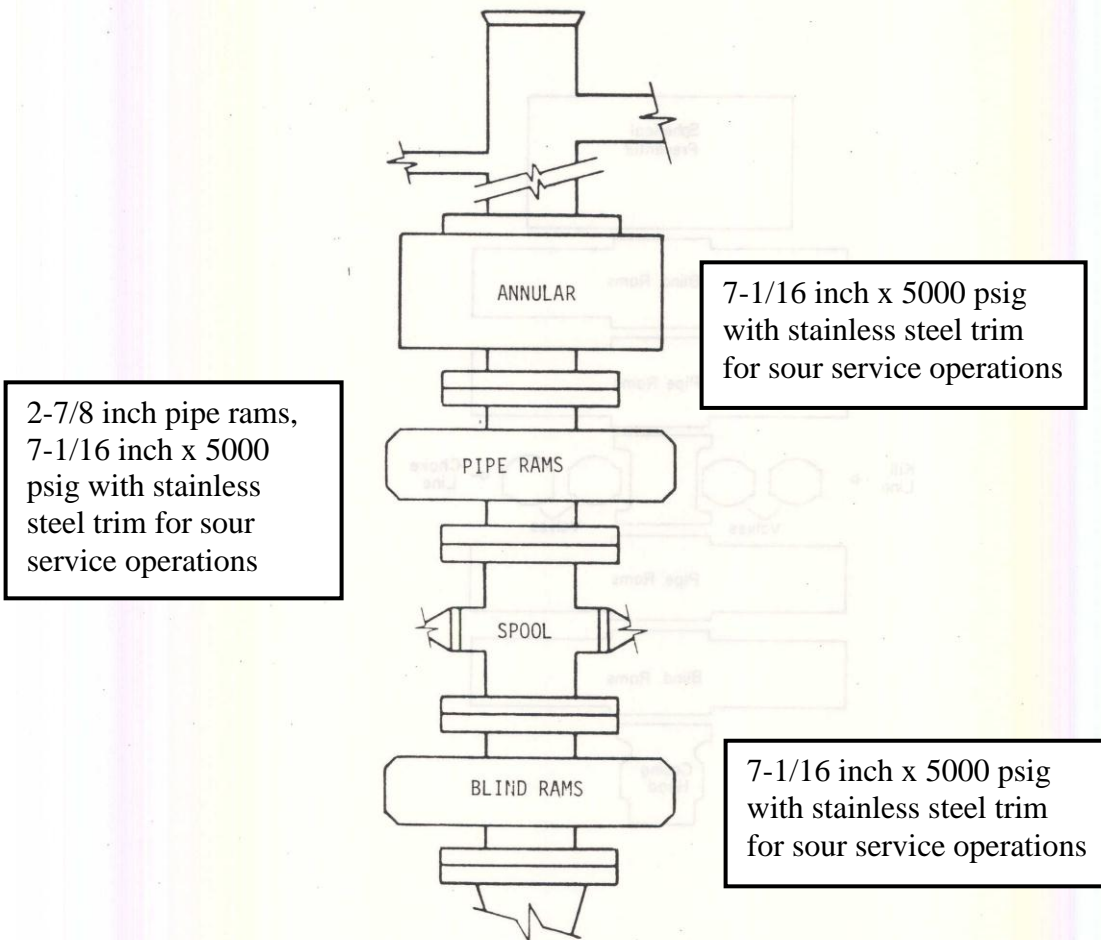
EXHIBIT C

FOOTAGE: 2086' FNL 778' FEL	<div>RESOLUTE</div> <div>NATURAL RESOURCES</div>		
SEC 6, T41S, R25E, SLM, SAN JUAN COUNTY, UT			
LAT: N 37.25282* LON: W 109.20901* (NAD83)	SURVEYED: 08/28/12		
ELEVATION: 4751.0' at ground level (NAVD88)	DRAWN BY: GEL	DATE: 09/09/12	FILE:
NOTE: Re-entry of existing well.	REVISION:		
HUMMINGBIRD SURVEYING, LLC --- P.P. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108			

RECEIVED: September 14, 2012

-63-

Attachment No. 3



TYPICAL WORKOVER BOP STACK

Figure 30

McELMO CREEK UNIT # M-14

GREATER ANETH FIELD

2086' FNL & 778' FEL

SEC 6-T41S-R25E

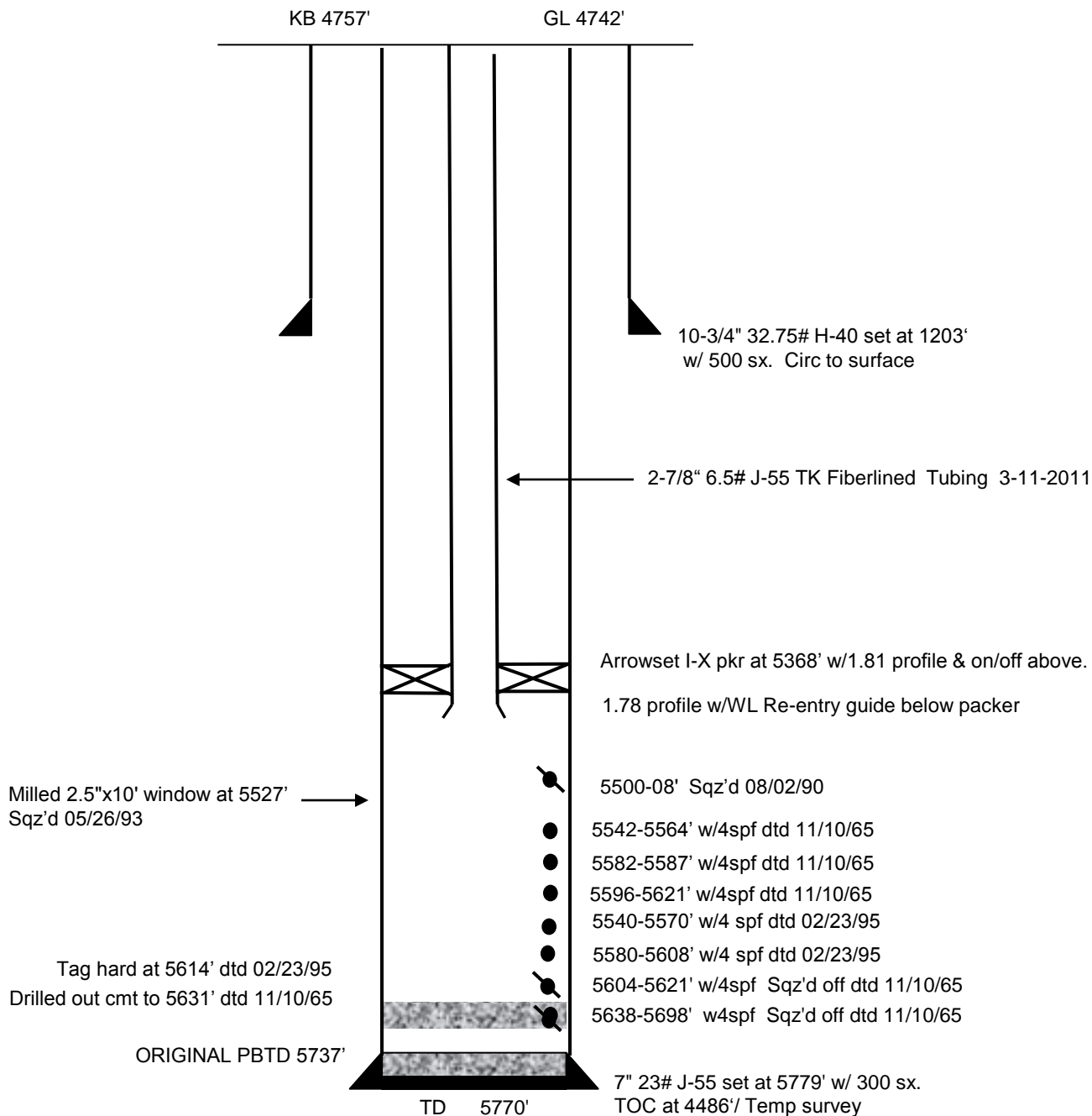
SAN JUAN COUNTY, UTAH

API 43-037-15963

PRISM 0000308

INJECTOR

Attachment 1: Existing Wellbore



McELMO CREEK UNIT # M-14

GREATER ANETH FIELD

2086' FNL & 778' FEL

SEC 6-T41S-R25E

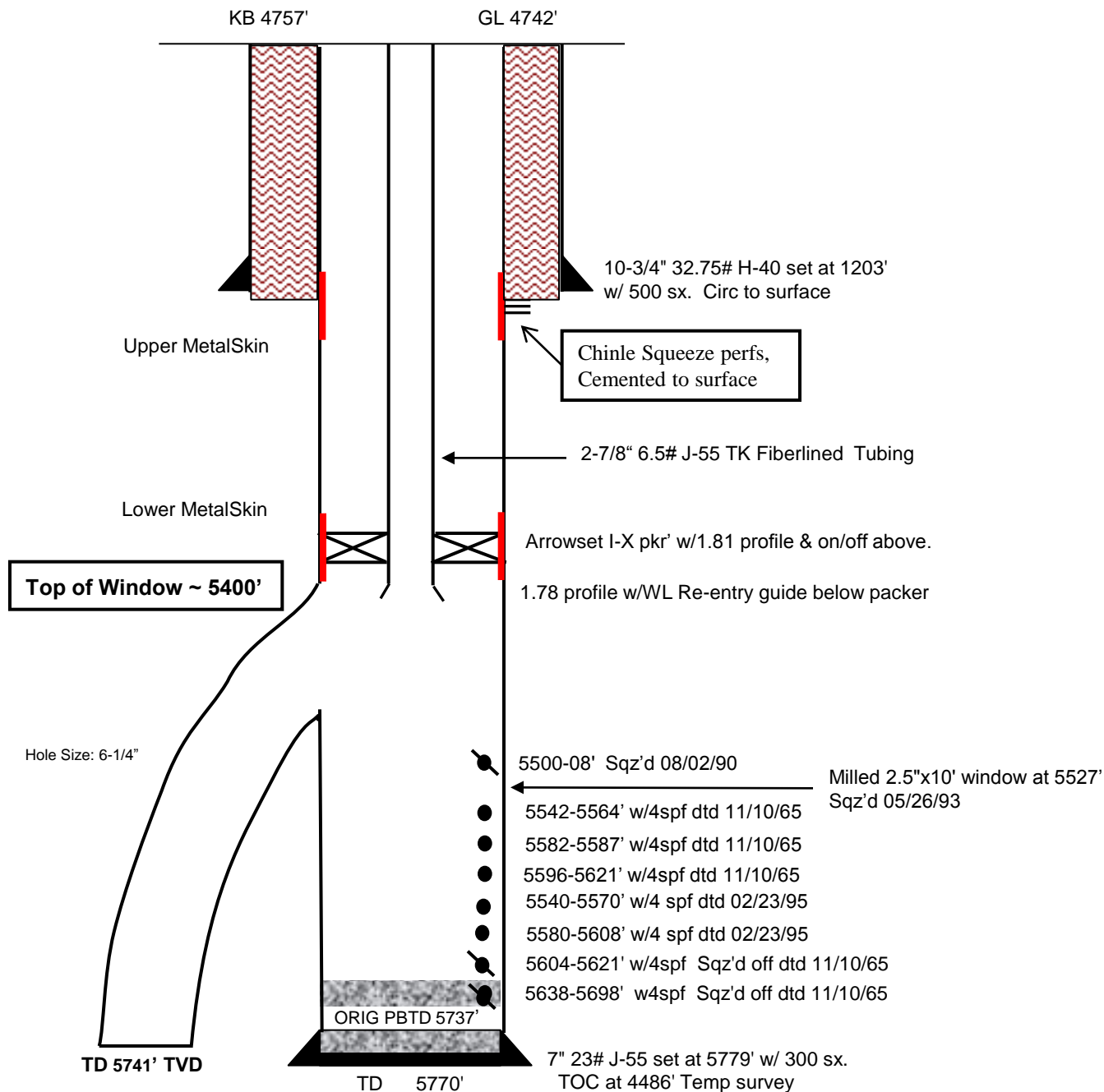
SAN JUAN COUNTY, UTAH

API 43-037-15963

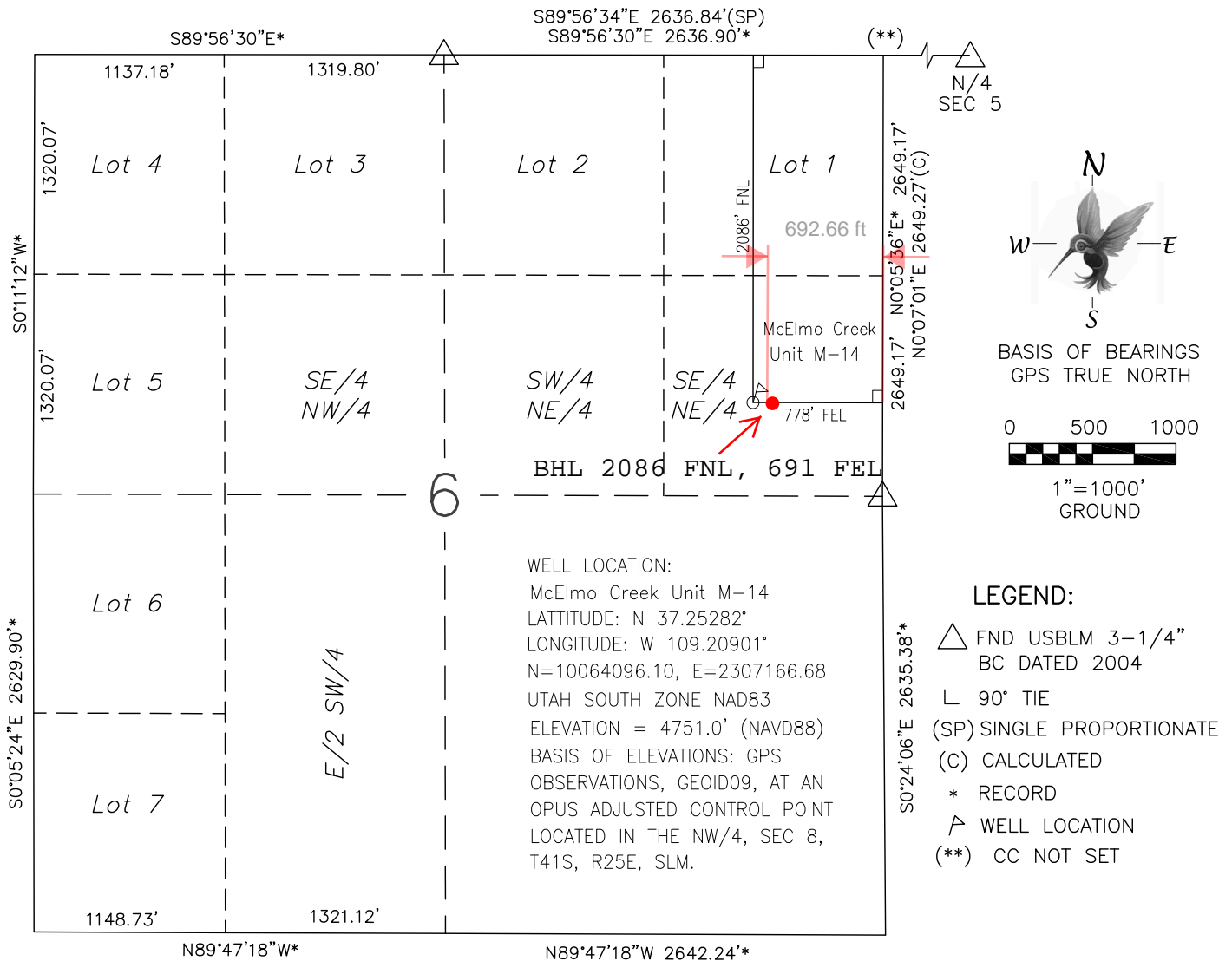
PRISM 0000308

INJECTOR

Attachment 2: Proposed Wellbore Sidetracked to DC-IIC, Open Hole Completion



Well Location - McElmo Creek Unit M-14



I, Gerald G. Huddleston, do hereby certify that I am a registered Utah land surveyor holding certificate number 161297 as prescribed under the laws of the State of Utah, and I further certify that under authority of the owner I have surveyed the well location as shown hereon and that the same is correct and true to the best of my knowledge and belief.

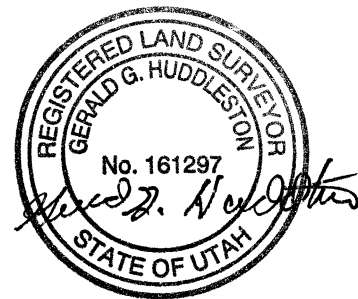
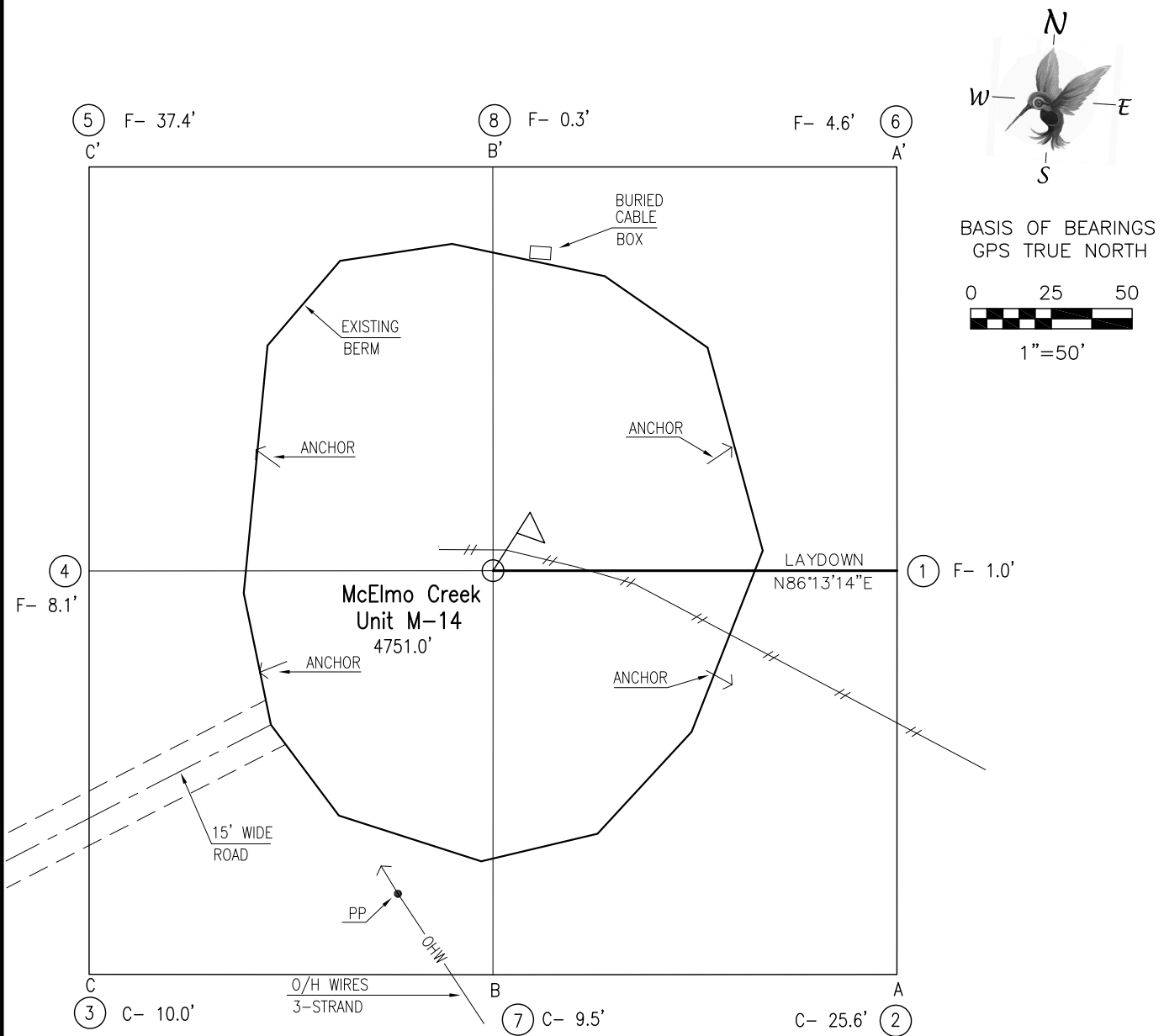


EXHIBIT A

FOOTAGE: 2086' FNL 778' FEL	RESOLUTE NATURAL RESOURCES		
SEC 6, T41S, R25E, SLM, SAN JUAN COUNTY, UT			
LAT: N 37.25282* LON: W 109.20901* (NAD83)	SURVEYED: 08/28/12		
ELEVATION: 4751.0' at ground level (NAVD88)	DRAWN BY: GEL	DATE: 09/08/12	
NOTE: Re-entry of existing well.	REVISION:		
HUMMINGBIRD SURVEYING, LLC --- P.O. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108			

RECEIVED: September 14, 2012

Well Pad - McElmo Creek Unit M-14



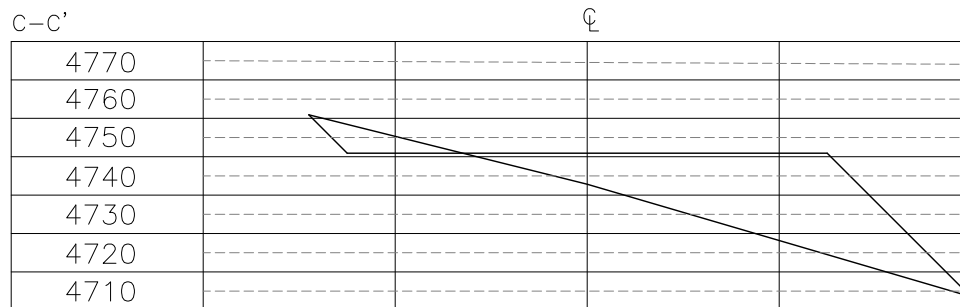
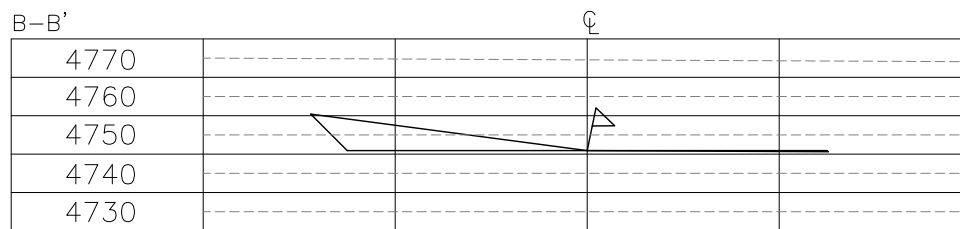
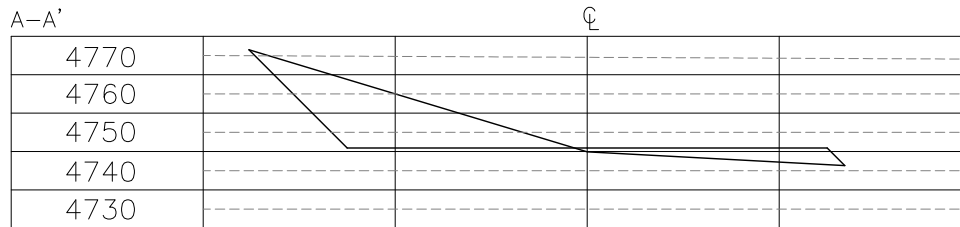
It shall be the responsibility of the Contractor to verify the location, depth and condition of all existing utilities and conduct all necessary field investigations prior to any excavation.
OneCall 800-662-5348

EXHIBIT B

FOOTAGE: 2086' FNL 778' FEL	RESOLUTE NATURAL RESOURCES		
SEC 6, T41S, R25E, SLM, SAN JUAN COUNTY, UT			
LAT: N 37.25282° LON: W 109.20901° (NAD83)	SURVEYED: 08/28/12		
ELEVATION: 4751.0' at ground level (NAVD88)	DRAWN BY: GEL	DATE: 09/08/12	
NOTE: Re—entry of existing well.	REVISION:		
HUMMINGBIRD SURVEYING, LLC --- P.O. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108			

RECEIVED: September 14, 2012

Cross Section - McElmo Creek Unit M-14



HORIZONTAL 1"=100'
VERTICAL 1"=50'

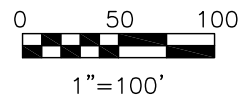


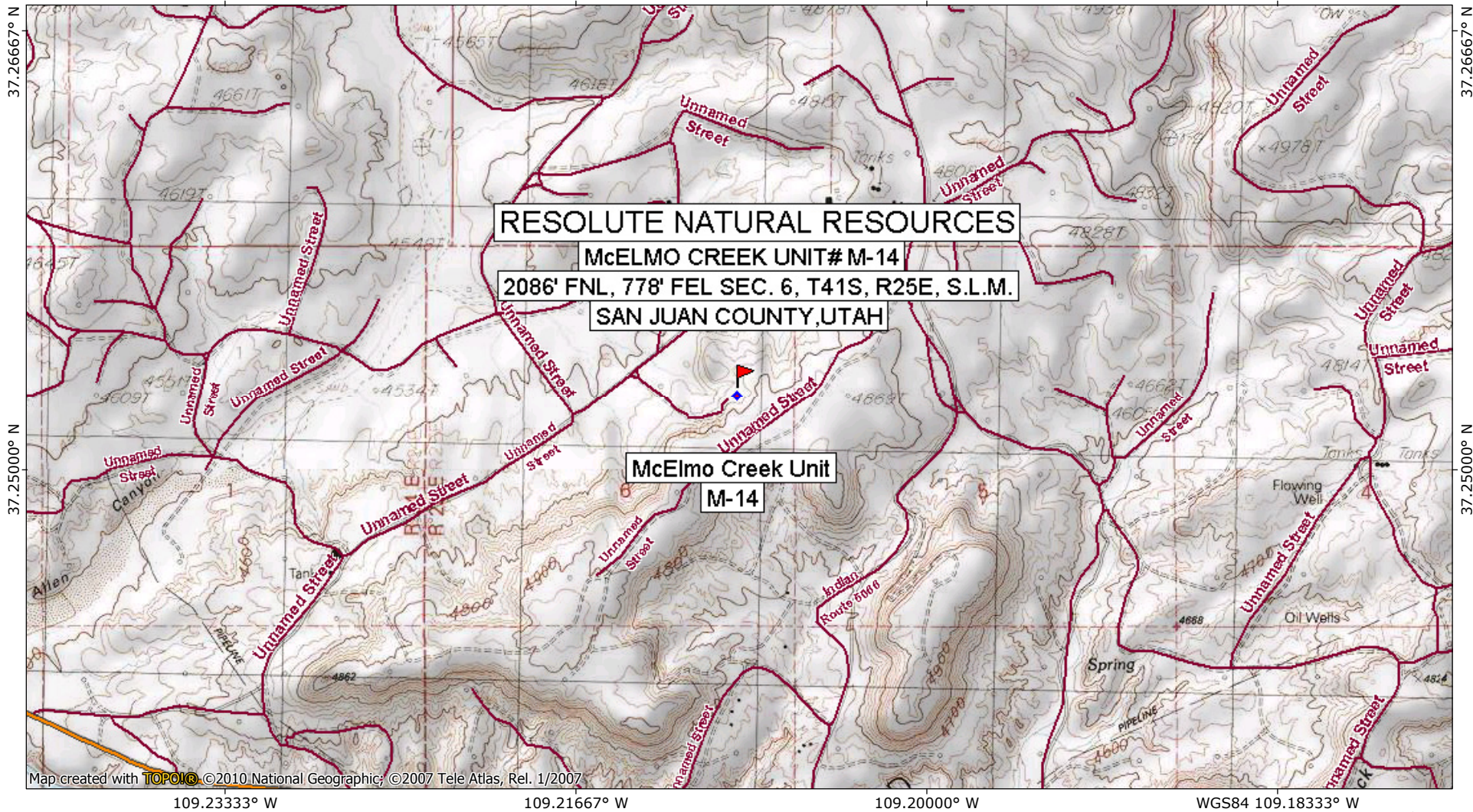
EXHIBIT C

FOOTAGE: 2086' FNL 778' FEL		RESOLUTE NATURAL RESOURCES		
SEC 6, T41S, R25E, SLM, SAN JUAN COUNTY, UT				
LAT: N 37.25282' LON: W 109.20901* (NAD83)		SURVEYED: 08/28/12		
ELEVATION: 4751.0' at ground level (NAVD88)		DRAWN BY: GEL	DATE: 09/09/12	FILE:
NOTE: Re-entry of existing well.		REVISION:		
HUMMINGBIRD SURVEYING, LLC --- P.P. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108				

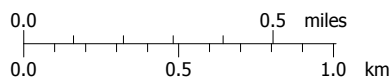
RECEIVED: September 14, 2012

37.25275° N, 109.20889° W WGS84TOPO! map printed on 09/09/12 from "TOPO MAP MCU M-14.tpo"

109.23333° W 109.21667° W 109.20000° W WGS84 109.18333° W



Map created with TOPO! ©2010 National Geographic; ©2007 Tele Atlas, Rel. 1/2007

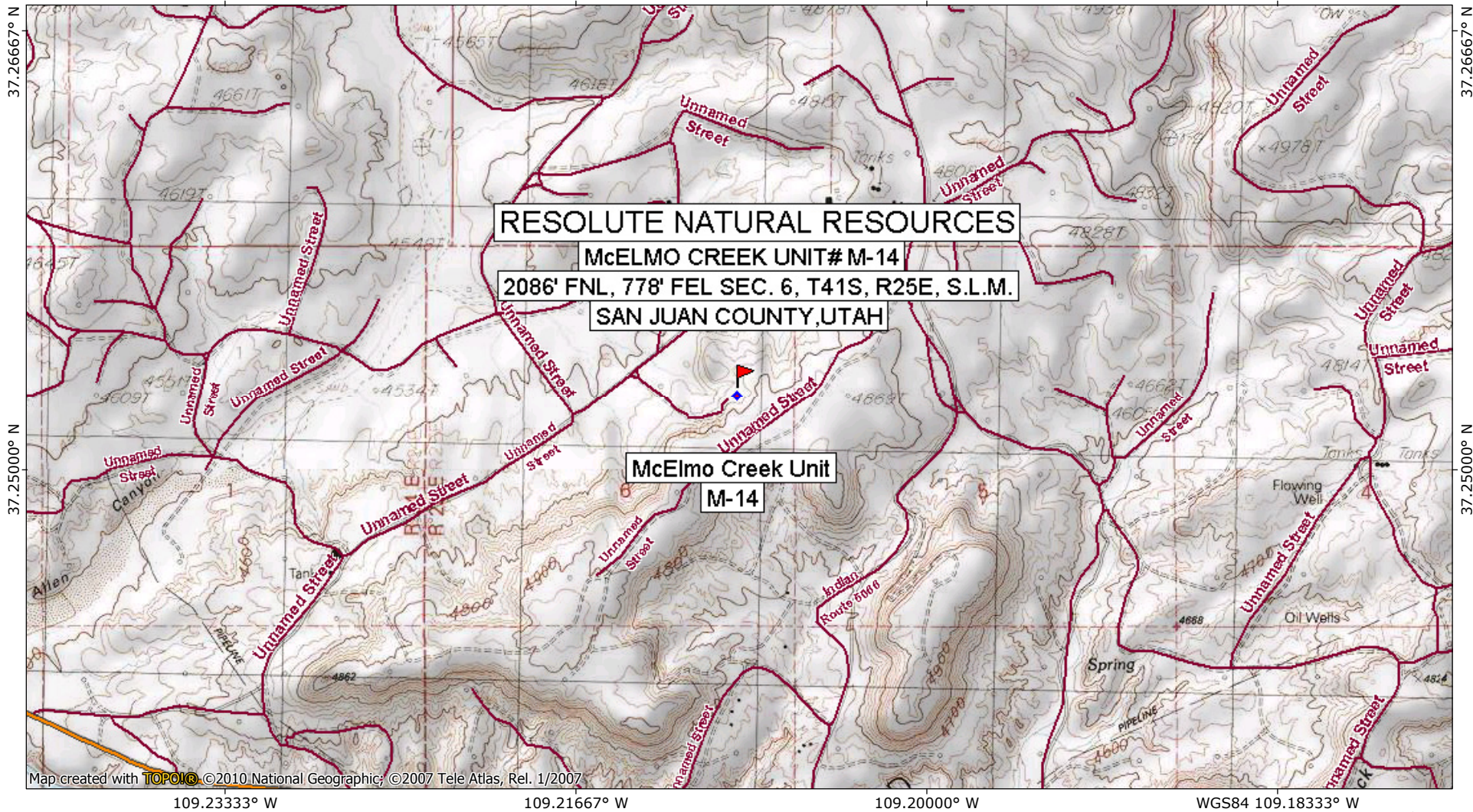


TN MN
10½°
09/09/12

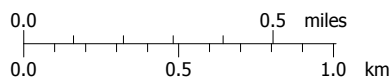
RECEIVED: September 14, 2012

37.25275° N, 109.20889° W WGS84TOPO! map printed on 09/09/12 from "TOPO MAP MCU M-14.tpo"

109.23333° W 109.21667° W 109.20000° W WGS84 109.18333° W

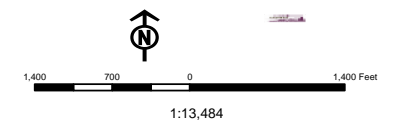
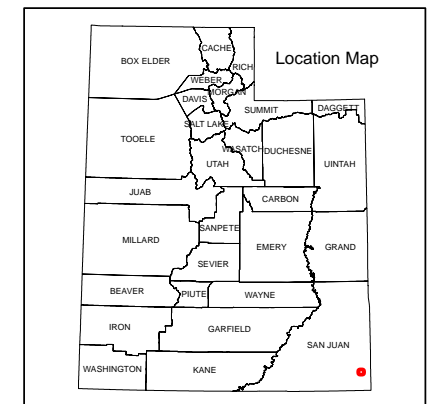
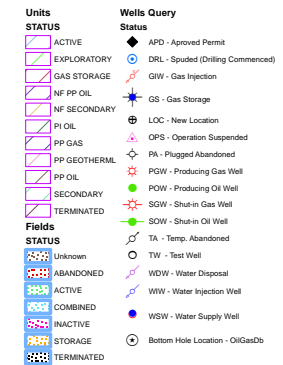


Map created with TOPO! ©2010 National Geographic; ©2007 Tele Atlas, Rel. 1/2007



TN MN
10½°
09/09/12

Map Prepared:
Map Produced by Diana Mason



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/14/2012

API NO. ASSIGNED: 43037159630000

WELL NAME: NAVAJO C 42-6 (MCELMO M-14)

OPERATOR: RESOLUTE NATURAL RESOURCES (N2700)

PHONE NUMBER: 303 573-4886

CONTACT: Sherry Glass

PROPOSED LOCATION: SENE 06 410S 250E

Permit Tech Review: ☒

SURFACE: 2086 FNL 0778 FEL

Engineering Review: ☐

BOTTOM: 2086 FNL 0691 FEL

Geology Review: ☒

COUNTY: SAN JUAN

LATITUDE: 37.25283

LONGITUDE: -109.20907

UTM SURF EASTINGS: 658828.00

NORTHINGS: 4124423.00

FIELD NAME: GREATER ANETH

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420603372

PROPOSED PRODUCING FORMATION(S): DESERT CREEK

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: INDIAN - B001263☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: lease produced water☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit: MCELMO CREEK

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 152-09

Effective Date: 8/27/2003

Siting: Suspends General Siting

☒ R649-3-11. Directional Drill

Comments: Presite Completed
610901 UNIT EFF:770119 COMM WIW:860424 FR N0920:950803 FR MEPNA:020417 FR N7370 6/01: OP FR N1855:

Stipulations: 4 - Federal Approval - dmason
15 - Directional - dmason

RECEIVED: October 01, 2012



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NAVAJO C 42-6 (MCELMO M-14)
API Well Number: 43037159630000
Lease Number: 1420603372
Surface Owner: INDIAN
Approval Date: 10/1/2012

Issued to:

RESOLUTE NATURAL RESOURCES, 1675 Boradway Ste 1950, Denver, CO 80202

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 152-09. The expected producing formation or pool is the DESERT CREEK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil &

Gas website
at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420603372
1. TYPE OF WELL Water Injection Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES		7. UNIT or CA AGREEMENT NAME: MCELMO CREEK
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202		8. WELL NAME and NUMBER: NAVAJO C 42-6 (MCELMO M-14)
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2086 FNL 0778 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 06 Township: 41.0S Range: 25.0E Meridian: S		9. API NUMBER: 43037159630000
9. FIELD and POOL or WILDCAT: GREATER ANETH		COUNTY: SAN JUAN
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/26/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Resolute is currently drilling this well to deepen it. A completion report will be submitted when the well is returned to production. Drilling report is attached.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 October 29, 2012

NAME (PLEASE PRINT) Sherry Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A	DATE 10/26/2012	



Daily Well Report

Well Name: Mcelmo Cr M14

API Number 43037159630000	Section 6	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)		KB-Casing Flange Distance (ft)		Well Spud Date/Time 10/19/1965 00:00	Rig Release Date/Time

Job Category Completion/Workover	Primary Job Type Recompletion	Secondary Job Type	Working Interest (%) 71.25
Start Date 10/16/2012	End Date	AFE Number 10012761	

Objective
Job scope: Retrieve existing tubing and packer, sidetrack out of the existing 7" casing at ~5400' and drill to a projected depth of 5741' TVD (~7' into Chimney Rock shale) using nitrogen as required; stimulate the open hole IIC section, run new 2-7/8" TK Fiberline tubing with KC couplings and new injection packer. Since this well is on the Horsley-Witten list, Chinle isolation is planned, with MetalSkin™ patches included to ensure integrity of the shallow squeeze perforations.

Contractor Four Corners Well Service	Rig Number 05	Rig Type	Rig Start Date 10/16/2012	Rig Release Date
---	------------------	----------	------------------------------	------------------

Report Number	Start Date	End Date	Summary
1			
2			
3	9/11/2012	9/11/2012	Locate and test 4 anchors to 25K, test ok, installed 4 anchors markers
4	9/17/2012	9/17/2012	
5	9/18/2012	9/18/2012	
6	9/20/2012	9/20/2012	Locate and test 4 anchors to 25K, test ok, installed 4 Anchor markers
7	10/1/2012	10/1/2012	Bust up concrete pad.
8	10/2/2012	10/2/2012	Break up concrete pad, load & haul to cmt to Lansing Yard
9	10/16/2012	10/17/2012	Report on MCU M #14 capital injector, 4CWS rig #5. Crew change JSA w/Dawn trucking. Job topic-rig move, heavy truck traffic on locations. Caught in-between equipment & trucks, rig crew stay clear and swamper's stay in sight of drivers, communication and teamwork. Load ramp and road rig to location. Spot ramp and park rig. Load & move all equipment off AU H#114. Spot FB tanks, CL pits, cuttings bin, power panel, 210 bbl storage tank, rig pump, gas buster, generator, swivel & power pack, closing unit, 3 pipe floats and fuel tank. Set stairs on rig and string out guy lines. Raise & scope derrick up, secure guy lines. RU 3" hardline f/WH tree to FB tanks. Open well up at 1900#. Returns of hvy CO2, gas and H2s w/readings of 10 to 50 ppm. Good wind direction. Crew change at 1800 hrs JSA & job topic was bleeding down well, high pressures w/CO2 & H2s present. Forklift operations overhead loads and congested location. Use spotter & tag lines. Pressure dropped to 400# in 3 hrs then slowly increased to 500#. SI and pump 35 bbls 10# brine to determine KWF and monitor. Built up to 800# . Call Terence at plant and order 40 bbls 14.5 ppg top kill and 350 bbls of 13.6 ppg mud to circulate into wellbore. Prep BOP, equipment and tools to ND/NUBOP. Change out rubber in rotating head. 40 bbls of top kill mud arrived at 0100 hrs. Line up and pump mud. Well went on slight vacume. ND WH & NUBOP. NU flex lines to gas buster and choke manifold. Pressure test BOP 200# low and 1000# high-good test. Started unloading 13.6 ppg mud @ 0400 hrs. RU floor, stairways and handrails. Crew change at 0600 hrs.
10	10/17/2012	10/18/2012	Capital, Side track & Recompletion Crew change @ 0600 hrs. Safety mtg & fill out JSA. Set up Cat walk & pipe racks, J-off Pkr, Got 1,175 psi on csg & 0 psi on tbg, Circ 210 bbls of 13.8 mud dn Tbg. Shut Well in for 15 mins, Well's dead. J back on to pkr & unset Pkr, tbg starting to flow, check Mud weight (13.8 w/ 38 viscosity). pump 23 bbls of 13.8 # dn Tbg, Tbg's dead. Lay dn tbg hanger & 1- 2-7/8' TKF lined Tbg, 1-10', 1-6' Subs, Lay dn 167 2- 7/8" TKF lined Tbg. Crew change at 1800 hrs, Fill out JSA & Talk about job task, Load up 168 TKF line on MWS road trailer. Hydraulic hose on tbg tong, got a pin hole leak, replace hydraulic hose. Same time, start moving 86 DP onto pipe rack & tally. P/u bit, 3-DP & scraper, P/u 83 DP. Move 92 DP onto pipe rack & tally. Crew took lunch & warm up. P/u 178th jnt & Tag hard @ 5,614' pull up & tag hard again, (no fill), lay dn 4 Jnts. TOO H w/ 30 Std, Crew change at 1800 hrs, Fill out JSA & talk about job task, continue TOO H w/ Bit & Scraper.
11	10/18/2012	10/19/2012	Capital Side track & Recompletion Crew change @ 0600 hrs. Safety mtg & fill out JSA. TOO H w/ 160 Jnts fill the hole w/ 13.8 mud (10 bbls) TOO H w/ 14 Jnts & lay dn bit & scraper. Spot blue Jet, Wire line. Safety mtg, R/u Wire line RIH w/ MTT, 40-Arm Caliper casing Inspection Log, Tag PBD @ 5,611', Log up to 1,000, POH & Lay dn MTT. Run RADII, Sector cement bond Log from 5,500 up to 1,000', POH w/ CBL Tool. Crew change at 1800 hrs, Fill out JSA, Talk about job task, lay CBL tool dn, P/u Composite plug RIH, Composite starting float, @ 1,500', going real slow, POH & put weight bar on line & RIH Still not going dn (OD on composite - 5.3/4), Blue Jet has a cast iron plug (OD 5.1/2), Called Jim S. to get ok to run CIBP. POH w/ Composite and RIH w/ CIBP, still catching on collar & floating. run in 1,000' within 1.5 hr. POH w/ CIBP. Call in for a water mellon & Taper mill from Baker Tool. wait on tool. TIH w/ water mellon & Taper mills to 5,501' (no tag), TOO H w/ 100 Jns. Crew change @ 0600 hr, fill out JSA & talk about job task, continue TOO H & lay dn Water melon & taper mills. NOTE : SET CAST IRON BRIDGE PLUG 22' Below Collar @ 5,369' Set Cast iron Bridge plug @ 5,391' 8' Above collar @ 5,399'



Daily Well Report

Well Name: McElmo Cr M14

API Number 43037159630000	Section 6	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)		KB-Casing Flange Distance (ft)		Well Spud Date/Time 10/19/1965 00:00	Rig Release Date/Time

Report Number	Start Date	End Date	Summary
12	10/19/2012	10/20/2012	<p>Capital Side track & Recompletion</p> <p>Lay dn 20 DP & lay Dn mills, Move 20 HWDP to pipe rack & Tally, P/u CIBP w/ collar locator, 2 7/8" eue pin x-over, 2 7/8"H-90 box x 2 7/8" AOH pin x- over, P/u 20 Jnts of spiral H-90 HWDP, 2 7/8" AOH box x 2 7/8: H-90 pin x- over. TIH w/ 152 Jnts of 2 7/8" DP, found csg collar 11' on 152 Jnt @ 5,402', came up 13' & set CIBP @ 5,394'. Rotate 10 rounds to the right, pull up 25-K over string weight, sat dn 25-K 2-times. Came up 4-K over string weight & rotate 5 more rounds to get sting out of CIBP w/ setting tool. Crew took lunch. Circ 13.8 mud to pit w/ 217 bbls of P/w. Pres test CIBP @ 500 psi for 30 min, Held good. Bled pres off. TOOH w/ setting tool. P/u & m/u whipstock to mills, Attempt to TIH, hit tight spot @ 84', made several attempt to get through, but not able to get pass tight spot, TOOH & lay dn whipstock. P/u 6.25 String mill and TIH, Work the tight spot @ 84 in the csg. Finished dressing up tight spot. P/u 7" anchor, excluder sub, 7' path master whipstock, 6.25 window mill, 6.25 flex mill, 1- 3 1/2' if DP, 1- 3.1/2' if P x -over x 2-7/8 AOH B, 1- 2-7/8 AOH UBHO Sub, 1- 2-7/8 H-90 b x 2-7/8 AOH P x-over, TIH w/ 20 Jnts of Spiral H-90 HWDP, 1- 2-7/8 AOH b x 2- 7/8 H-90 x-over, TIH to 5,384' (150 Jnts). R/u wireline and Orientate whipstock @ 88.91, tag BP @ 5,389' & set anchor w/ 10-K down & pull up 8-K over to make sure anchor is set & pull wire line up to 500', sat down 30- K to shear anchor. R/dn Wire line. Crew change @ 0600, Fill out JSA & safety topic, pinch point & hand placement, R/u swivel and start circ.</p>
13	10/20/2012	10/21/2012	<p>Crew change @ 0600 Hrs, Fill out JSA & safety topic, pinch point & hand placement, R/u swivel and Start circulating. Mill 6' from 5,374.93 to 5,380.93, had to shut dn the rig pump, to replace valve seat. Replaced valve seat on pump. Get circ, continue milling out window. Swivel unit shut down, no diesel in tank, fill the tank up, rig crew don't have a primer pump. Called Eddie w/ weatherford, let him know what's going w/ his unit and He said he'll sent somebody out to fixed it. while were waiting on weatherford, Took diesel filters off, found out, need to replace diesel filters, don't have any diesel filters on loc. So we rinse it out w/ diesel & put filters back on engine & prime up the diesel (putting air to diesel tank) and got it started. Crew change at 1800 hrs, Fill out JSA Continue milling out window, got 4' rat hole, mill stoped making hole, went ahead & ream the window until we were able to go up & down with out any drag, talk to Baker tool hand & Directional hand and decided to TOOH & TBIH w/ 6.25 Bit to drill out 2' more. lay dn swivel. Stewart & stevenson work on swivel unit & leaking oil from motor. TOOH w/160 Jnts.</p>
14	10/21/2012	10/22/2012	<p>Crew change @ 0600, Fill out JSA & safety topic, hand placement. Continue TOOH & lay dn Mill Tools. TBIH w/ 6.25 Bit & 170 Jnts. Got a called from Eddie w/ Weatherford, saying that the swivel unit motor is shock and he don't have another swivel in shop. So I called, High Tech, No answer, left a message, Called Knight and they have a 3.50 Swivel. I called Donnie and him told about the swivel. Attempt to get circulation, rig pump went down, Fixed pump (couple springs went out). Start up the pump, Got circ, drill out 2', total 7' into formation. Pull up above Whipstock. Circulate hole for 1 hr. R/dn swivel w/ 1 Jnt. Crew change at 1800 hrs, Fill out JSA. TOOH w/ 6.25 bit. Crew took a break. P/u Hughes/ STX-30DX Bit- .75, 1- motor 7/8 2.0 Stage- O.D.- 5.06, UBHO- O.D.-4.75 (1) Monel O.D.-4.50, (2) Monel O.D.-4.75 Total BHA= 89.92, & pres test String, Leaking from set screw on UBHO Sub. Wait on Gyro/data UBHOSub from Farmington For 2- Hrs. N/u UBHO Sub, Pres Test String, Good.</p>
15	10/22/2012	10/23/2012	<p>On the MCU M-14, capital expense project, Four Corner Well Services Rig #5, 0600, crew change, fill out HJSA w/crew, talk about job task, RIH w/BHA on drill pipe, pinch points an house keeping were discussed, clean up floor, continue to RIH w/BHA, on 10 stands of 2 7/8" heavy weight , spiral drill pipe, 30 stands of 2 7/8" AOH drill pipe , bit to 2600', set DP in slips, RU TIW, RU flow tee, RUKelly, RU pump, pump thru motor, 800# press, good signal, shut down pump, RD kelly, flow tee, TIW, cont to RIH with 44 more stands of 2 7/8" AOH DP, bit to 5378', PU and RUpower swivel, ru wireline lubricator on swivel, run wire thur swivel, set gyro in joint # 169, pu with swivel, rih with gyro, stop gyro @2500', test gyro, working good, cont to rih w/ gyro to 5378', tested gyro , working good, pump thru motor, could not get rate or press needed to start drilling with rig pump, call out for a second pump, Call Donnie Trimble inform on situation, shut down wait on pump, 01800 crew change, HJSA w/crew, talk about ru second pump, strike zone while rigging up, were discussed, wait on pump. Pump delivered, 02200, spot in , rig up pump, start up press up, found leak on discharge line, 2" nipple on 6" well flange was wash out, call out welder, waited for welder, welder on location 0300, welded new nipple on flange, crew rig flange back on to pump. 0600 crew change.</p>



Daily Well Report

Well Name: McElmo Cr M14

API Number 43037159630000	Section 6	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)		KB-Casing Flange Distance (ft)		Well Spud Date/Time 10/19/1965 00:00	Rig Release Date/Time

Report Number	Start Date	End Date	Summary
16	10/23/2012	10/24/2012	On the MCU M-14, injector, capital expences , Four Corners Well Service Rig #5, 0600, crew change, hjsa w/crew, talk about job task , drilling open hole, communication was discussed, start pumps, pump thur motor with prod. water, psi to 1950#, 200 gals per min rate.start drilling, went thur window okay at 5383', slide drill from 5389' to 5413', ran survey, pu gyro to surface, made connection, joint #170, rih w/gryo, bench mark @2500' gryo working, check every 500' to 5000', gyro working, tag up an slide drill from 5413' to 5416', lost signal from gyro , would not reset, pooh with gyro, replace, rih, bench mark @2000',3000',4000',5000', good signal, start drilling, slide drill from 5416' to 5421', survey, returns show sand an shale rock.01800 crew change, hjsa w/crew, talk about rigging down wireline, suspended loads an tag line were discussed, pooh with gyro , lay down , rig down wireline, move out. est cir, 1950# psi, 200 gals min., slide drill from 5421' to 5429', survey,time drill from 5429' to 5444', survey , returns rock , slide drill from 5444' to 5473', survey make conection Jnt.#171, est cir, 1950# pump psi, 200 gals /min, 92.8 az., 4.8 degrees decline, rop 9.0' hr, slide drill from 5444' to 5505' , returns fo rock an sand, 0600 crew change.
17	10/24/2012	10/25/2012	On the MCU M-14, injector, capital expences, Four Corners Well Services Rig #5, 0600 crew change , HJSA w/crew, talk about job task, cont drilling, talk about hearing protection, made connection, pu joint # 173 with swivel, est cir. with rig pump, 1950#/200 gals min rate, slide drill to 5515', well started flowing, co2, cont to drill out to 5525', well started flowing back fluids, pu bit off bottom, shut down pump, shut in well psi to 200#, one hour si 700#, 2 hrs 950#, call eng. call Donnie Trimble, talk about stuation, will kill well , pooh with mud motor, rih with bit cont to d/o @1200 si 1250#, 10# delivered to location, open csg psi thur choke, pump 200 bbls ran survey during pumping, psi down to 150#, cont to flow back thur choke, shut down pump, drill pipe 0#, rd swivel, ru elevator, pooh with 6 joints 2 7/8" AOH DP, bit to 5347'. add tiw, flow tee, fcp down to 0#, 01630, shut in well, 01800 , sicmp 950#, crew change,hjsa with crew, talk about loading hole with 13.3# mud, an windy conditions. 13.3# mud delivered, sicmp 1100#, open csg thur choke start pumping mud, pump 185 bbls,13.3# mud, shut down pump, psi to zero, watch for flow, rd kelly,flow tee, tiw, pooh with 73 stand 2 7/8" AOH dp, one single, x/o, 10 stands 2 7/8" hwy spril dp, x/o, layed down 2 7/8" ubho sub, x/o, 2-4 3/4" monels , 4 3/4" ubho sub,4 3/4" motor, 6 1/4" bit.lunch, rih 6 1/4" bit, bit sub, 10 stands of 2 7/8" hwy spril dp, x/o, 75 stands an one single, bit to 5350'. 0600 crew change

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420603372
1. TYPE OF WELL Water Injection Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES		7. UNIT or CA AGREEMENT NAME: MCELMO CREEK
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202		8. WELL NAME and NUMBER: NAVAJO C 42-6 (MCELMO M-14)
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2086 FNL 0778 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 06 Township: 41.0S Range: 25.0E Meridian: S		9. API NUMBER: 43037159630000
PHONE NUMBER: 303 534-4600 Ext		9. FIELD and POOL or WILDCAT: GREATER ANETH
COUNTY: SAN JUAN		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/16/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Resolute has completed deepening the MCU M-14 on 10-27-12. A completion report will be filed when the well is put back to production. A drilling report is attached.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 December 03, 2012

NAME (PLEASE PRINT) Sherry Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A	DATE 11/29/2012	



Daily Well Report

Well Name: Mcelmo Cr M14

API Number 43037159630000	Section 6	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time 10/19/1965 00:00	Rig Release Date/Time		

Job Category Completion/Workover	Primary Job Type Recompletion	Secondary Job Type	Working Interest (%) 71.25
Start Date 10/16/2012	End Date 11/6/2012	AFE Number 10012761	

Objective
Job scope: Retrieve existing tubing and packer, sidetrack out of the existing 7" casing at ~5400' and drill to a projected depth of 5741' TVD (~7' into Chimney Rock shale) using nitrogen as required; stimulate the open hole IIC section, run new 2-7/8" TK Fiberline tubing with KC couplings and new injection packer. Since this well is on the Horsley-Witten list, Chinle isolation is planned, with MetalSkin™ patches included to ensure integrity of the shallow squeeze perforations.

Contractor Four Corners Well Service	Rig Number 05	Rig Type	Rig Start Date 10/16/2012	Rig Release Date 11/6/2012
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Report Number	Start Date	End Date	Summary
1	9/11/2012	9/11/2012	Locate and test 4 anchors to 25K, test ok, installed 4 anchors markers
2	9/17/2012	9/17/2012	
3	9/18/2012	9/18/2012	
4	9/20/2012	9/20/2012	Locate and test 4 anchors to 25K, test ok, installed 4 Anchor markers
5	10/1/2012	10/1/2012	Bust up concrete pad.
6	10/2/2012	10/2/2012	Break up concrete pad, load & haul to cmt to Lansing Yard
7	10/16/2012	10/17/2012	Report on MCU M #14 capital injector, 4CWS rig #5. Crew change JSA w/Dawn trucking. Job topic-rig move, heavy truck traffic on locations. Caught in-between equipment & trucks, rig crew stay clear and swamper's stay in sight of drivers, communication and teamwork. Load ramp and road rig to location. Spot ramp and park rig. Load & move all equipment off AU H#114. Spot FB tanks, CL pits, cuttings bin, power panel, 210 bbl storage tank, rig pump, gas buster, generator. swivel & power pack, closing unit, 3 pipe floats and fuel tank. Set stairs on rig and string out guy lines. Raise & scope derrick up, secure guy lines. RU 3" hardline f/WH tree to FB tanks. Open well up at 1900#. Returns of hvy CO2, gas and H2s w/readings of 10 to 50 ppm. Good wind direction. Crew change at 1800 hrs JSA & job topic was bleeding down well, high pressures w/CO2 & H2s present. Forklift operations overhead loads and congested location. Use spotter & tag lines. Pressure dropped to 400# in 3 hrs then slowly increased to 500#. SI and pump 35 bbls 10# brine to determine KWF and monitor. Built up to 800#. Call Terence at plant and order 40 bbls 14.5 ppg top kill and 350 bbls of 13.6 ppg mud to circulate into wellbore. Prep BOP, equipment and tools to ND/NUBOP. Change out rubber in rotating head. 40 bbls of top kill mud arrived at 0100 hrs. Line up and pump mud. Well went on slight vacume. ND WH & NUBOP. NU flex lines to gas buster and choke manifold. Pressure test BOP 200# low and 1000# high-good test. Started unloading 13.6 ppg mud @ 0400 hrs. RU floor, stairways and handrails. Crew change at 0600 hrs.
8	10/17/2012	10/18/2012	Capital, Side track & Recompletion Crew change @ 0600 hrs. Safety mtg & fill out JSA. Set up Cat walk & pipe racks, J-off Pkr, Got 1,175 psi on csg & 0 psi on tbg, Circ 210 bbls of 13.8 mud dn Tbg. Shut Well in for 15 mins, Well's dead. J back on to pkr & unset Pkr, tbg starting to flow, check Mud weight (13.8 w/ 38 viscosity). pump 23 bbls of 13.8 # dn Tbg, Tbg's dead. Lay dn tbg hanger & 1- 2-7/8" TKF lined Tbg, 1-10',1-6' Subs, Lay dn 167 2- 7/8" TKF lined Tbg. Crew change at 1800 hrs, Fill out JSA & Talk about job task, Load up 168 TKF line on MWS road trailer. Hydraulic hose on tbg tong, got a pin hole leak, replace hydraulic hose. Same time, start moving 86 DP onto pipe rack & tally. P/u bit, 3-DP & scraper, P/u 83 DP. Move 92 DP onto pipe rack & tally. Crew took lunch & warm up. P/u 178th jnt & Tag hard @ 5,614' pull up & tag hard again, (no fill), lay dn 4 Jnts. TOO H w/ 30 Std, Crew change at 1800 hrs, Fill out JSA & talk about job task, continue TOO H w/ Bit & Scraper.
9	10/18/2012	10/19/2012	Capital Side track & Recompletion Crew change @ 0600 hrs. Safety mtg & fill out JSA. TOO H w/ 160 Jnts fill the hole w/ 13.8 mud (10 bbls) TOO H w/ 14 Jnts & lay dn bit & scraper. Spot blue Jet, Wire line.Safety mtg, R/u Wire line RIH w/ MTT, 40-Arm Caliper casing Inspection Log, Tag PBD @ 5,611', Log up to 1,000, POH & Lay dn MTT. Run RADII, Sector cement bond Log from 5,500 up to 1,000', POH w/ CBL Tool. Crew change at 1800 hrs, Fill out JSA, Talk about job task, lay CBL tool dn, P/u Composite plug RIH, Composite starting float, @ 1,500', going real slow, POH & put weight bar on line & RIH Still not going dn (OD on composite - 5.3/4), Blue Jet has a cast iron plug (OD 5.1/2), Called Jim S. to get ok to run CIBP. POH w/ Composite and RIH w/ CIBP, still catching on collar & floating.run in 1,000' within 1.5 hr. POH w/ CIBP. Call in for a water mellon & Taper mill from Baker Tool. wait on tool. TIH w/ water mellon & Taper mills to 5,501' (no tag), TOO H w/ 100 Jns. Crew change @ 0600 hr, fill out JSA & talk about job task, continue TOO H & lay dn Water melon & taper mills. NOTE : SET CAST IRON BRIDGE PLUG 22' Below Collar @ 5,369' Set Cast iron Bridge plug @ 5,391' 8' Above collar @ 5,399'



Daily Well Report

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Report Number	Start Date	End Date	Summary
10	10/19/2012	10/20/2012	Capital Side track & Recompletion Lay dn 20 DP & lay Dn mills, Move 20 HWDP to pipe rack & Tally, P/u CIBP w/ collar locator, 2 7/8" eue pin x-over, 2 7/8"H-90 box x 2 7/8" AOH pin x- over, P/u 20 Jnts of spiral H-90 HWDP, 2 7/8" AOH box x 2 7/8: H-90 pin x- over. TIH w/ 152 Jnts of 2 7/8" DP, found csg collar 11' on 152 Jnt @ 5,402', came up 13' & set CIBP @ 5,394'. Rotate 10 rounds to the right, pull up 25-K over string weight, sat dn 25-K 2-times. Came up 4-K over string weight & rotate 5 more rounds to get sting out of CIBP w/ setting tool. Crew took lunch. Circ 13.8 mud to pit w/ 217 bbls of P/w. Pres test CIBP @ 500 psi for 30 min, Held good. Bled pres off. TOOH w/ setting tool. P/u & m/u whipstock to mills, Attempt to TIH, hit tight spot @ 84', made several attempt to get through, but not able to get pass tight spot, TOOH & lay dn whipstock. P/u 6.25 String mill and TIH, Work the tight spot @ 84 in the csg. Finished dressing up tight spot. P/u 7" anchor, excluder sub, 7' path master whipstock, 6.25 window mill, 6.25 flex mill, 1- 3 1/2' if DP, 1- 3.1/2' if P x -over x 2-7/8 AOH B, 1- 2-7/8 AOH UBHO Sub, 1- 2-7/8 H-90 b x 2-7/8 AOH P x-over, TIH w/ 20 Jnts of Spiral H-90 HWDP, 1- 2-7/8 AOH b x 2- 7/8 H-90 x-over, TIH to 5,384' (150 Jnts). R/u wireline and Orientate whipstock @ 88.91, tag BP @ 5,389' & set anchor w/ 10-K down & pull up 8-K over to make sure anchor is set & pull wire line up to 500', sat down 30- K to shear anchor. R/dn Wire line. Crew change @ 0600, Fill out JSA & safety topic, pinch point & hand placement, R/u swivel and start circ.
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12	10/21/2012	10/22/2012	Crew change @ 0600, Fill out JSA & safety topic, hand placement. Continue TOOH & lay dn Mill Tools. TBIH w/ 6.25 Bit & 170 Jnts. Got a called from Eddie w/ Weatherford, saying that the swivel unit motor is shock and he don't have another swivel in shop. So I called, High Tech, No answer, left a message, Called Knight and they have a 3.50 Swivel. I called Donnie and him told about the swivel. Attempt to get circulation, rig pump went down, Fixed pump (couple springs went out). Start up the pump, Got circ, drill out 2', total 7' into formation. Pull up above Whipstock. Circulate hole for 1 hr. R/dn swivel w/ 1 Jnt. Crew change at 1800 hrs, Fill out JSA. TOOH w/ 6.25 bit. Crew took a break. P/u Hughes/ STX-30DX Bit- .75, 1- motor 7/8 2.0 Stage- O.D.- 5.06, UBHO- O.D.-4.75 (1) Monel O.D.-4.50, (2) Monel O.D.-4.75 Total BHA= 89.92, & pres test String, Leaking from set screw on UBHO Sub. Wait on Gyro/data UBHOSub from Farmington For 2- Hrs. N/u UBHO Sub, Pres Test String, Good.
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Daily Well Report

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Report Number	Start Date	End Date	Summary
14	10/23/2012	10/24/2012	On the MCU M-14, injector, capital expences , Four Corners Well Service Rig #5, 0600, crew change, hjsa w/crew, talk about job task , drilling open hole, communication was discussed, start pumps, pump thur motor with prod. water, psi to 1950#, 200 gals per min rate.start drilling, went thur window okay at 5383', slide drill from 5389' to 5413', ran survey, pu gyro to surface, made connection, joint #170, rih w/gyro, bench mark @2500' gyro working, check every 500' to 5000', gyro working, tag up an slide drill from 5413' to 5416', lost signal from gyro , would not reset, pooh with gyro, replace, rih, bench mark @2000',3000',4000',5000', good signal, start drilling, slide drill from 5416' to 5421', survey, returns show sand an shale rock.01800 crew change, hjsa w/crew, talk about rigging down wireline, suspended loads an tag line were discussed, pooh with gyro , lay down , rig down wireline, move out. est cir, 1950# psi, 200 gals min., slide drill from 5421' to 5429', survey,time drill from 5429' to 5444', survey , returns rock , slide drill from 5444' to 5473', survey make conection Jnt.#171, est cir, 1950# pump psi, 200 gals /min, 92.8 az., 4.8 degrees decline, rop 9.0' hr, slide drill from 5444' to 5505' , returns fo rock an sand, 0600 crew change.
15	10/24/2012	10/25/2012	On the MCU M-14, injector, capital expences, Four Corners Well Services Rig #5, 0600 crew change , HJSA w/crew, talk about job task, cont drilling, talk about hearing protection, made connection, pu joint # 173 with swivel, est cir. with rig pump, 1950#/200 gals min rate, slide drill to 5515', well started flowing, co2, cont to drill out to 5525', well started flowing back fluids, pu bit off bottom, shut down pump, shut in well psi to 200#, one hour si 700#, 2 hrs 950#, call eng. call Donnie Trimble, talk about stuation, will kill well , pooh with mud motor, rih with bit cont to d/o @1200 si 1250#, 10# delivered to location, open csg psi thur choke, pump 200 bbls ran survey during pumping, psi down to 150#, cont to flow back thur choke, shut down pump, drill pipe 0#, rd swivel, ru elevator, pooh with 6 joints 2 7/8" AOH DP, bit to 5347'. add tiw, flow tee, fcp down to 0#, 01630, shut in well, 01800 , sicmp 950#, crew change,hjsa with crew, talk about loading hole with 13.3# mud, an windy conditions. 13.3# mud delivered, sicmp 1100#, open csg thur choke start pumping mud, pump 185 bbls,13.3# mud, shut down pump, psi to zero, watch for flow, rd kelly,flow tee, tiw, pooh with 73 stand 2 7/8" AOH dp, one single, x/o, 10 stands 2 7/8" hwy spril dp, x/o, layed down 2 7/8" ubho sub, x/o, 2-4 3/4" monels , 4 3/4" ubho sub,4 3/4" motor, 6 1/4" bit.lunch, rih 6 1/4" bit, bit sub, 10 stands of 2 7/8" hwy spril dp, x/o, 75 stands an one single, bit to 5350'. 0600 crew change
16	10/25/2012	10/26/2012	On the MCU M-14, injector, capital expences, Four Corners Well Services Rig # 5, 0600 crew change, hjsa w/crew, talk about job task,displacing mud w/ produce water, press ,possible h2s, were dicussed, water truck on location , start moving produce water, start rig pump, recovered 200 bbls 13# mud, shut down pump, rd kelly, flow tee, tiw, pu joint #172, change out stripping rubber, rih joint 172,173, 174, 175, ru swivel, pu joint #176 rih tag up @5525', est cir w/rig pump, pump pressure 400#, 120 gals /min, wob 11 points, d/o to 5539', cir clean, make connection, pu joint #177 w/swivel, est cir w/rig pump, d/o to 5571', rop 16'/hr, cir clean, shut down pump, make connection, pu joint#178 with swivel, 01800, crew change, talk about job task, drilling open hole, hearing protection, windy condition, were discussed, cont to drill open hole, d/o joint #178,179,180, d/o to 5665', dp psi 420#, 10 pt on bit, 66 rpm, rop 4.5'/hr, 120 gals fluids/min. 6ppm h2s at flow back tank, cir clean,0600 crew change
17	10/26/2012	10/27/2012	On the MCU M-14, injector , capital expences, Four Corners Wells Service Rig #5, 0600 crew change, hjsa w/crew , talk about job task, drill out open hole, pinch points, handplacement, an h2s, were decussed, cont to d/o , joint #181,182,183, drill from 5665' to 5741', dp psi 420#, 11 points on bit, 66 rpm, rop 15', 120 gals /min on pump. pu bit off bottom, cir well , pump psi 250#, cir clean, shut down pump, lay down one joint w/swivel, rd swivel, ru elevators, lay down 12 more joints 2 7/8" AOH dp. bit @ 5350', ru rig pump, displace well bore w/200 bbls 13# mud.,01800, crew change, hjsa w/crew, talk about job task, pooh w/tbg an bha, pinch points an h2s were dicussed, pooh with 75 stands of 2 7/8" AOH dp, 10 stands 2 7/8" hwy wt spril dp, bit sub, 6 1/4" bit.ru wireline flange, miru wireline, hjsa w/crew, talk about suspended loads, ru chem frac, rih , shot chem frac from 5675'-5685', 5657'-5667" pooh setting tool , chem frac fired okay. rd wireline mo, rih w/10 stands 2 7/8" hwy spril dp, pooh , lay down, pu an rih, bull plugged 4' X2 7/8" eue perf sub, x/o,12 joints of 2 7/8" AOH dp., treating packer, 35 stands 2 7/8" AOH drill pipe, well started flowing up dp, ru tiw, flow tee ,kelly, start flowing back dp, shut well in. wait on mud



Daily Well Report

Well Name: Mcelmo Cr M14

API Number 43037159630000	Section 6	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time 10/19/1965 00:00	Rig Release Date/Time		

Report Number	Start Date	End Date	Summary
18	10/27/2012	10/28/2012	Daily report on MCU M #14 capital injector 4CWS rig #5. Crew change, 1 man short. Toolpusher will operate rig. JSA & job topic-bleed off backside, high pressures, possible H2S, CO2 & LEL. Watch wind direction and gas monitors. Baker pumping delayed w/truck problem in Farmington. Waiting on 50 bbls of 13.0 ppg mud to be delivered to use as top kill on DP. Open up CSG w/900# to FB tank on 1/4" choke. High levels of LEL, CO2 & H2S blowing back on location. Shut well.. Open up @ 800 psi bleed off to 200 psi. Pump 12 bbls 13.0 ppg mud-top kill. DP on vacume. Continue TIH another 35 stds of 2 7/8" AOH DP pumping top kill every 12 stds. PU single jnts & set treating PKR @ 5344', EOT @ 5734'. Load backside w/produced water & test PKR to 1000 psi-good. Spot Baker trucks & RU hard line. Group JSA w/17 men present. Review job plan, max pressures and rates. emergency contacts, shower trailer & stop job authority. Test hard line to 5000 psi-good. Pump 17 bbls fresh water ahead @ 2.3 bpm to 951# to load DP & shut down. Open bypass & spot 34 bbls 28% HCl acid f/EOT to depth of 5468' and shut in for 1 hr. Continue pumping last 114 bbls acid @ 3.0 bpm w/ max pressure of 205# w/average of 66 psi. Displace w/26 bbls @ 3.8 bpm fresh water to EOT and shut in f/2hrs. ISIP of 0# on a suction. Monitor pressure. Crew change @ 1800 hrs, JSA and job plan.Topic-flowing back acid stimulation-watch gas levels, monitors and wind directions. Releasing PKR & TOOH. Check DP, still on vacume. Open up to FB tank & monitor-no flow. Bleed off 500# on backside and release PKR. No flow on well. LD 12 single jnts & TOOH to 1673'. Kick & flow on CSG of 250 psi to FB tanks. Choke back & pump 95 bbls produced water-DP 0#, CSG It blow. SI, wait f/prod water. TBG 200#, CSG 280#. Pump 20 bbls DP. Continue TOOH & LD PKR. TIH to 2526' w/kill string. SI well in, wait on Weatherford/metalskin tool hand. Crew change @ 0600 hrs.
19	10/28/2012	10/29/2012	Daily report on MCU M #14 capital injector 4CWS rig #5. Crew change JSA & job plan-forklift ops, killing well & PU BHA f/TIH with mill run to prep f/lower metal skin install. Use spotters & tag lines. Pinch points, caught in-between and teamwork. First day f/new floor hand on crew. Move & strap 4 -3 1/2" DC's. Weatherford called to inform that tool hand held up in Denver airport. Farmington tool hand leaving town to start job. Csg 500# & DP 425#. Bleed off Csg thru choke manifold & start pumping produced down kill string, well killed. TOOH 36 stds 2 7/8" f/2526' to surface. SI well. Tool hand on loc @ 1030 hrs. Spot trailer, unload & tally all metal skin equipment. PU 1st 3 1/2" DC & MU bit sub, scraper, melon mill & 6 1/4" bit. PU 3 more DC's & start TIH. Tag solid 84' in. PU pwr swvl & RU to rotate & dress Csg w/6.3035" OD mill. No progress. Call Jim Styler to inform. Call f/6.25" OD mill f/town (no tapered mill available, will run w/bit again).TOOH & LD BHA & DC's. Wait on new mill. Mill on location @ 1730 hrs, unload. Crew change @ 1800 hrs. JSA & job plan-MU mill BHA, TIH & TOOH. Keeping well killed-H2s & gas present. Start MU BHA w/6.25" OD mill. Problem-did not send different xo's required f/scraper to mill & mill back to 6 1/4" bit. Wait for xo's to arrive.Tool hand & crew continue to MU metalskin assembly & rack back in derrick during down time.Mill on loc @ 2030 hrs. MU BHA, DC's & TIH to 5171' . RU pwr swvl, PU 6 single jnts & rotate to a depth of 5360' . RD pwr swvl. Break to eat. LD 6 single jnts. TOOH to surface & LD mills. Crew change @ 0600 hrs.
20	10/29/2012	10/30/2012	Daily report on MCU M#14 capital injector 4CWS rig #5. Crew change @ 0600 hrs, JSA & job topic-PU metalskin BHA & TIH. First time operation f/crew. Good clear communication w/tool hand. Forklift ops-use spotters & tag lines. Pinch points, caught in-between and stop job authority. MU metalskin BHA & TIH w/163 jnts 2 7/8" DP to 5343' (32' above window). Tie back on single line. RU Wilson Services pump truck. Pump up to 4500# & release pressure. Strip thru & set metalskin liner pulling 140k to 160k. Bottom @ 5343', top @ 5274'. Liner specifications as follows; OD-6.166", ID-5.678", Drift-5.458", Burst of 5000# & Collapses of 3390#. RD Wilson Services & release. Break to eat. Go back to double line and TOOH 81 stds. LD metalskin equipment & 1 single. Secure well. Crew change @ 1800 hrs JSA & job topic-TIH w/injection PKR, TOOH, TIH w/RBP, TOOH. Pinch points, teamwork, derrick man 100% tie off & forklift ops. Use spotters & tag lines. Move organize & store Weatherford equipment for use on upper metalskin. PU 7" Arrowset 1x injection PKR w/plug in place & TIH 168 jnts 2 7/8" DP. Set w/elements @ 5313.52' (30' f/bottom of metalskin), pull 30k to set. RU & load backside w/produced water. SI and pressure test PKR to 1000#-good test. Bleed off and LD 117 single jnts of 2 7/8" DP on racks & move to pipe float. Crew change @ 0600 hrs.



Daily Well Report

Well Name: Mcelmo Cr M14

API Number 43037159630000	Section 6	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time 10/19/1965 00:00	Rig Release Date/Time		

Report Number	Start Date	End Date	Summary
21	10/30/2012	10/31/2012	Daily report on MCU M#14 capital injector 4CWS rig #5. Crew change @ 0600 hrs. JSA & job topic- was TIH w/RBP-pinch points, teamwork & proper backup on tongs to prevent slip cuts. TIH to 1616' & set RBP. Release & circulate fresh water to clean wellbore. Dump sand on top of RBP. LD 4 singles & TOO H 22 stds to surface. RU Blue Jet-group JSA, review depths & hazards. Turn phone's off. Stay clear of wireline operations. RIH w/2' gun, perforate f/1565' to 1567' w/4 spf, come out w/WL, all shots fired good. RD WL & release. RU to circulate thru Braden head. Start pumping @ .5 bbl/min w/pressure of 1000#, pump total of 100 bbls without circulation. Called to inform Jim Styler. RD off Bradenhead . Crew change @ 1800 hrs. JSA & job topic-TIH w/CICR, good communication w/tool hand, & pinch points. TIH & set CICR @ 1454'. Wait on Haliburton to arrive. Spot & RU hardline & water supply. Group JSA-12 men present. Review job, max pressure's, emergency numbers, Lat & Long. Possible high pressures & stay clear of hardlines & trucks. Pressure test to 3000#-good. Start w/20 bbl water ahead. Established good circulation @ 1.3 bpm. Pump 500 SKS 1.91 YLD, 170 bbls of 12.4# lead cmt. Had cmt returns after 117 bbls. Pump 50 SKS, 1.15 YLD, 10.2 bbls 15.8# tail cmt. Displace w/6 bbl water. Sting out leaving 1/2 bbl on CICR. Had 63 bbls of cmt returns. RD Haliburton off DP. Rack 1 std in derrick & reverse circulate 12 bbls water until clean. RD & release cmt crew. TOO H to surface. Secure well. WOC f/24 hrs.
22	10/31/2012	11/1/2012	Daily report for MCU M #14 capital injector 4CWS rig #5. Crew change @ 0600 hrs. WOC. JSA & job topic-service rig & equipment, power wash equipment & housekeeping. Shut down all equipment before any service work, slick surface's & trip hazards. Service rig unit & rig pump. Power wash rig, pump, closed loop pit system & catwalk. Inventory & record S/N on Weatherford rental equipment. Crew change @ 1800 hrs. JSA & job topic-power wash derrick, 100% tied off. RU flow line f/mud cross to gas buster, fall protection. Move & tally DC's, forklift ops use spotters. Start task, completed all. MU 6 1/4" junk mill, xo sub on first 3 1/2" DC. PU total of 6 DC's & TIH w/2 7/8" AOH DP. Tag up @ 1435'. RU power swivel. Establish circulation @ 3 BPM w/fresh water. Start milling-WOB 2-3K, 60 RPM w/CP of 500 psi. Returns of fine CMT cuttings.. Mill f/1435' to 1455' jnt #41. Crew change @ 0600 hrs
23	11/1/2012	11/2/2012	Capital Side track & Recompletion. Crew change @ 0600 hrs. Safety mtg, Fill out JSA. Continue to mill out CICR @ 1,454' w/ 4 points on mill & 1500 torque on swivel, mill out CIRC on Jnt-41 (11 -hrs on milling out CICR) & continue milling out cmt to 1,530'.on Jnt-43 (Avg time 3- hrs per Jnt).Crew change @ 0600 Hrs. CICR @ 1,454' & RBP @ 1,613'
24	11/2/2012	11/3/2012	Capital Side track & Recompletion. Crew change @ 0600 hrs. Safety mtg, Fill out JSA. Continue milling out cmt to 1,568'.on Jnt- 44. N/dn Swivel. TOO H w/ Junk Mill, lay it dn, TBIH w/ 6" fishing magnet, Tag Cmt. & TOO H w/ pieces of CICR, TBIH w/ fishing magnet & P/u Swivel, Circ w/ 1200 psi on pump for 30 min. N/dn Swivel, TOO H w/ Magnet (Big chunks of CICR), Crew change @ 1800 Hrs, Safety mtg, Fill out JSA, TBIH w/ magnet, P/u Swivel & Circ w/ 1200 psi on pump for 30 mins, N/dn swivel, TOO H & lay dn Fishing magnet (small pieces of CICR).TBIH w/ 6 1/4" Bit. Tag & N/u Swivel w/ Jnt -45, Got circ, Drill out end of cmt.@ 1,611'. Pres test Csg @ 1,100 psi for 30 mins, slow leak, Bled pres off, pres back up to 1,100 psi for 30 mins, tested Good, Bled pres off, Circ clean w/ P/w for 1-Hr. N/dn swivel. TOO H & lay dn Fishing magnet, P/u Bit, scraper & String mill, TBIH dn to 1,600', Crew change @ 0600 Hrs.
25	11/3/2012	11/4/2012	On the MCU M-14, capital project , injector, Four Corners Well Service Rig #5, 0600, crew change, hjsa w/ crew, talk about job task, pooh w/ drill collars an laying down, pinch points, were discussed, pooh with 23 stands of 2 7/8" AOH dp, 6 - 3 1/2" drill collars, lay down . RIH w/retrieving head, on 51 joints 2 7/8" AOH dp, to 1600', ru swivel, , start rig pump, cir sand off of RBP, shut down pump, latch an release RBP with swivel, rd swivel, hang back, ru elevators, pooh with 7 joints of 2 7/8" aoh dp, lay down, pooh with an stand back 22 stands,lay down RBP an retrieving head. Change over tools to run metal skins, tongs an elevatoers, ru metal skins, pu an rih with two metal skins, made up an rih setting tool, two joint 2 7/8" eue tbg, x/o to 2 7/8" AOH, crew change @1800, hjsa w/crew, talk about job task , rih with dp, setting metal skins, pinch points an tag lines were discussed.Rih w/21 stands 2 7/8" AOH dp., pu one single, ru tbg swivel rih, spot metal skin patch @ 1532' thur 1602', ru pump truck to tbg swivel, pump up an set anchor w/ 4500#, twice, set metal skin , set 55' w/ rig , than jack last 15' with pump truck. lay down three joints, rd tbg swivel an pump truck, pooh with 38 joints of 2 7/8" AOH lay down, move to trailer, lay down BHA, load out weatherford tools, move out. move over 90 joints 2 7/8" TK fiberline w/kc couplings, tally, rih with on/off tool, nickel coated nipple, 105 joints 2 7/8" TK tbg, 3360', 0600 crew change,



Daily Well Report

Well Name: McElmo Cr M14

API Number 43037159630000	Section 6	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time 10/19/1965 00:00	Rig Release Date/Time		

Report Number	Start Date	End Date	Summary
26	11/4/2012	11/5/2012	On the MCU M-14, injector, capital expences, Four Corners Well Service Rig #5, 0600, crew change, hjsa w/crew, talk about job task rih with TK tbg, pinch points an handplacement were decussed,cont to rih with 68 more joints on/off tool to 5308', ru rig pump, cir top of plug, shut down pump, close pipe rams , pressure csg up to 1000#, (mock mit) held for 30 mins, , good test , bd, displace csg with 220 bbls packer fluid, space out tbg, pu tbg hanger add on stainless seat nipple an tiw valve, set in hanger latching on/off tool, 10k on tbg hanger, 18k on packer, set lock downs, rd power swivel, ru rig pump to csg, press to 1050#, mock mit, held for 30 mins, good solid test. bd pressure, rd tongs,slips,gaurds,ladder,floor,bop stack,add new ring gasket, remove tiw from hanger, ru well head an master valves, test seal to 2000# good test, bd pressure, miru slick line unit, ru to well head, rih with spear to 5200", ru rig pump to tbg, pressure up to 1200#, cont to rih with spear tag up plug 5321', pierces plug , tbg went on vacum, pooh w/spear,01800, crew change, hjsa w/crew talk about job task, recover plug an start rigging down equipment,teamwork was decussed, ru overshot, rih latch an retrieve 1.81" F-plug. pooh, shut in well, rd slickline, move out, rd equipment, haul off fluids , equipment an rig ready to move.
27	11/5/2012	11/6/2012	On the MCU M-14, injector capital expence, Four Corner Well Service Rig #5, 0600 crew change, hjsa w/crew, talk about job task, scoping down derrick, moving rig, talk about teamwork, miru super sucker, start cleaning out mud pits, haul off three loads of water, untie guy lines, scope down derrick, tie up guy lines on rig, drive off of rig ramp, Dawn Trucking on location 01200, hjsa w/ drivers, talk about route an speed, spotters., road rig to location, load out rig ramp, move to location, finish cleaning out mud pit, found out cement was set up in flow back tank,

RECEIVED

JAN 22 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

DIV. OF OIL, GAS & MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <u>water injection</u>						5. LEASE DESIGNATION AND SERIAL NUMBER: 1420603372					
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input checked="" type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____						6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo					
2. NAME OF OPERATOR: Resolute Natural Resources						7. UNIT or CA AGREEMENT NAME McElmo Creek					
3. ADDRESS OF OPERATOR: 1675 Broadway, Ste 195 (CITY) Denver STATE CO ZIP 80202						8. WELL NAME and NUMBER: NAVAJO C 42-6 (MCELMO)					
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2086 FNL, 778 FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: 2086 FNL, 728 FEL AT TOTAL DEPTH: 2086 FNL, 691 FEL						9. API NUMBER: 4303715963 M-14					
14. DATE SPURRED: 10/16/2012						15. DATE T.D. REACHED: 10/26/2012		16. DATE COMPLETED: 11/12/2012		17. ELEVATIONS (DF, RKB, RT, GL): 4751 GL	
18. TOTAL DEPTH: MD 5,741 TVD 5,741						19. PLUG BACK T.D.: MD TVD		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD	
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) Cement bond log						23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)					
24. CASING AND LINER RECORD (Report all strings set in well)											
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED		
15	10.75 H-40	32.75	0	1,203		B 500		0 CIR			
9	7.0 J-55	23	0	5,779		B 300		4486 TS			
25. TUBING RECORD											
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)			
2.875		5,308									
26. PRODUCING INTERVALS						27. PERFORATION RECORD					
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS			
(A) Desert Creek IIC	5,657	5,685			5,500 5,508			Open <input type="checkbox"/> Squeezed <input checked="" type="checkbox"/>			
(B)					5,542 5,621			Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>			
(C)					5,540 5,608			Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>			
(D)					5,604 5,698			Open <input type="checkbox"/> Squeezed <input checked="" type="checkbox"/>			
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.											
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL										
5657 to TD open hole	17 bbls FW head, 148 bbls 28% HCl acid, 26 bbls FW flush										
29. ENCLOSED ATTACHMENTS:										30. WELL STATUS:	
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION										<input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS	
<input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____										<input type="checkbox"/> DIRECTIONAL SURVEY injecting	

31. INITIAL PRODUCTION**INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Upper Ismay	5,396			Chimney Rock Shale	5,734
Lower Ismay	5,468				
Gothic Shale	5,533				
Desert Creek IA	5,543				
Desert Creek IB	5,568				
Desert Creek IC	5,582				
Desert Creek IIA	5,604				
Desert Creek IIB	5,621				
Desert Creek IIC	5,639				
Desert Creek III	5,711				

35. ADDITIONAL REMARKS (Include plugging procedure)

Injection line plumbed in 11-28-12, MIT done 11-7-12, attached to this report, SITP 855 psi, SICP 0 psi.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Sherry Glass

TITLE Sr Regulatory Technician

SIGNATURE

Sherry Glass

DATE 1/16/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

RESOLUTE

NATURAL RESOURCES

Daily Well Report

Well Name: Mcelmo Cr M14

API Number 43037159630000	Section 6	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time 10/19/1965 00:00	Rig Release Date/Time		

Job Category MIT	Primary Job Type Mechanical Integrity Test	Secondary Job Type	Working Interest (%)
Start Date 11/7/2012	End Date 11/7/2012	AFE Number	

Objective

Contractor	Rig Number	Rig Type	Rig Start Date	Rig Release Date
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Report Number	Start Date	End Date	Summary
1	11/7/2012	11/7/2012	Road wtr truck & Wilson pressure truck to loc. JSA, Tailgate Safety Mtg. (Other crews on loc, comm, sign JSA's & discuss). SITP 855 psig. SICP 0 psig. 7" csg. Pkr @ 5,368.31. MIRU Test Unit. Blow down tbg to tank. Could not get down below 790 psig. PT csg to 1,100 psig w/30 gallons methanol wtr. Chart well for 30 min. on 3,000 psig chart. Held Steady. Passed MIT witnessed by Jean BIA w/NNEPA.. RDMO Test Unit

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Daily Activity and Cost Summary**Well Name: McElmo Cr M14**

API Number 43037159630000	Section 6	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time 10/19/1965 00:00	Rig Release Date/Time		

Job Category Completion/Workover	Primary Job Type Recompletion	Secondary Job Type	Working Interest (%) 71.25
Start Date 10/16/2012	End Date 11/6/2012	AFE Number	

Objective
Job scope: Retrieve existing tubing and packer, sidetrack out of the existing 7" casing at ~5400' and drill to a projected depth of 5741' TVD (~7' into Chimney Rock shale) using nitrogen as required; stimulate the open hole IIC section, run new 2-7/8" TK Fiberline tubing with KC couplings and new injection packer. Since this well is on the Horsley-Witten list, Chinle isolation is planned, with MetalSkin™ patches included to ensure integrity of the shallow squeeze perforations.

Contractor Four Corners Well Service	Rig Number 05	Rig Start Date 10/16/2012	Rig Release Date 11/6/2012
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Report Number	Start Date	End Date	Day Total	Cum To Date	Summary
1	9/11/2012	9/11/2012			Locate and test 4 anchors to 25K, test ok, installed 4 anchors markers
2	9/17/2012	9/17/2012			
3	9/18/2012	9/18/2012			
4	9/20/2012	9/20/2012			Locate and test 4 anchors to 25K, test ok, installed 4 Anchor markers
5	10/1/2012	10/1/2012			Bust up concrete pad.
6	10/2/2012	10/2/2012			Break up concrete pad, load & haul to cmt to Lansing Yard
7	10/16/2012	10/17/2012			Report on MCU M #14 capital injector, 4CWS rig #5. Crew change JSA w/Dawn trucking. Job topic-rig move, heavy truck traffic on locations. Caught in-between equipment & trucks, rig crew stay clear and swamper's stay in sight of drivers, communication and teamwork. Load ramp and road rig to location. Spot ramp and park rig. Load & move all equipment off AU H#114. Spot FB tanks, CL pits, cuttings bin, power panel, 210 bbl storage tank, rig pump, gas buster, generator, swivel & power pack, closing unit, 3 pipe floats and fuel tank. Set stairs on rig and string out guy lines. Raise & scope derrick up, secure guy lines. RU 3" hardline f/VH tree to FB tanks. Open well up at 1900#. Returns of hvy CO2, gas and H2s w/readings of 10 to 50 ppm. Good wind direction. Crew change at 1800 hrs JSA & job topic was bleeding down well, high pressures w/CO2 & H2s present. Forklift operations overhead loads and congested location. Use spotter & tag lines. Pressure dropped to 400# in 3 hrs then slowly increased to 500#. SI and pump 35 bbls 10# brine to determine KWF and monitor. Built up to 800#. Call Terence at plant and order 40 bbls 14.5 ppg top kill and 350 bbls of 13.6 ppg mud to circulate into wellbore. Prep BOP, equipment and tools to ND/NUBOP. Change out rubber in rotating head. 40 bbls of top kill mud arrived at 0100 hrs. Line up and pump mud. Well went on slight vacume. ND WH & NUBOP. NU flex lines to gas buster and choke manifold. Pressure test BOP 200# low and 1000# high-good test. Started unloading 13.6 ppg mud @ 0400 hrs. RU floor, stairways and handrails. Crew change at 0600 hrs.
8	10/17/2012	10/18/2012			Capital, Side track & Recompletion Crew change @ 0600 hrs. Safety mtg & fill out JSA. Set up Cat walk & pipe racks, J-off Pkr, Got 1,175 psi on csg & 0 psi on tbg, Circ 210 bbls of 13.8 mud dn Tbg. Shut Well in for 15 mins, Well's dead. J back on to pkr & unset Pkr, tbg starting to flow, check Mud weight (13.8 w/ 38 viscosity). pump 23 bbls of 13.8 # dn Tbg, Tbg's dead. Lay dn tbg hanger & 1- 2-7/8' TKF lined Tbg, 1-10',1-6' Subs, Lay dn 167 2- 7/8" TKF lined Tbg. Crew change at 1800 hrs, Fill out JSA & Talk about job task, Load up 168 TKF line on MWS road trailer. Hydraulic hose on tbg tong, got a pin hole leak, replace hydraulic hose. Same time, start moving 86 DP onto pipe rack & tally. P/u bit, 3-DP & scraper, P/u 83 DP. Move 92 DP onto pipe rack & tally. Crew took lunch & warm up. P/u 178th jnt & Tag hard @ 5,614' pull up & tag hard again, (no fill), lay dn 4 Jnts. TOOH w/ 30 Std, Crew change at 1800 hrs, Fill out JSA & talk about job task, continue TOOH w/ Bit & Scraper.

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Daily Activity and Cost Summary

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Report Number	Start Date	End Date	Day Total	Cum To Date	Summary
9	10/18/2012	10/19/2012			<p>Capital Side track & Recompletion</p> <p>Crew change @ 0600 hrs. Safety mtg & fill out JSA. TOO H w/ 160 Jnts fill the hole w/ 13.8 mud (10 bbls) TOO H w/ 14 Jnts & lay dn bit & scraper. Spot blue Jet, Wire line. Safety mtg, R/u Wire line RIH w/ MTT, 40-Arm Caliper casing Inspection Log, Tag PBD @ 5,611', Log up to 1,000, POH & Lay dn MTT. Run RADII, Sector cement bond Log from 5,500 up to 1,000', POH w/ CBL Tool. Crew change at 1800 hrs, Fill out JSA, Talk about job task, lay CBL tool dn, P/u Composite plug RIH, Composite starting float, @ 1,500', going real slow, POH & put weight bar on line & RIH Still not going dn (OD on composite - 5.3/4), Blue Jet has a cast iron plug (OD 5.1/2), Called Jim S. to get ok to run CIBP. POH w/ Composite and RIH w/ CIBP, still catching on collar & floating. run in 1,000' within 1.5 hr. POH w/ CIBP. Call in for a water mellow & Taper mill from Baker Tool. wait on tool. TIH w/ water mellow & Taper mills to 5,501' (no tag), TOO H w/ 100 Jns. Crew change @ 0600 hr, fill out JSA & talk about job task, continue TOO H & lay dn Water melon & taper mills.</p> <p>NOTE : SET CAST IRON BRIDGE PLUG 22' Below Collar @ 5,369' Set Cast iron Bridge plug @ 5,391' 8' Above collar @ 5,399'</p>
10	10/19/2012	10/20/2012			<p>Capital Side track & Recompletion</p> <p>Lay dn 20 DP & lay Dn mills, Move 20 HWDP to pipe rack & Tally, P/u CIBP w/ collar locator, 2 7/8" eue pin x- over, 2 7/8"H-90 box x 2 7/8" AOH pin x- over, P/u 20 Jnts of spiral H-90 HWDP, 2 7/8" AOH box x 2 7/8" H-90 pin x- over. TIH w/ 152 Jnts of 2 7/8" DP, found csg collar 11' on 152 Jnt @ 5,402', came up 13' & set CIBP @ 5,394'. Rotate 10 rounds to the right, pull up 25-K over string weight, sat dn 25-K 2-times. Came up 4-K over string weight & rotate 5 more rounds to get sting out of CIBP w/ setting tool. Crew took lunch. Circ 13.8 mud to pit w/ 217 bbls of P/w. Pres test CIBP @ 500 psi for 30 min, Held good. Bled pres off. TOO H w/ setting tool. P/u & m/u whipstock to mills, Attempt to TIH, hit tight spot @ 84', made several attempt to get through, but not able to get pass tight spot, TOO H & lay dn whipstock. P/u 6.25 String mill and TIH, Work the tight spot @ 84 in the csg. Finished dressing up tight spot. P/u 7" anchor, excluder sub, 7' path master whipstock, 6.25 window mill, 6.25 flex mill, 1- 3 1/2' if DP, 1- 3.1/2' if P x-over x 2-7/8 AOH B, 1- 2-7/8 AOH UBHO Sub, 1- 2-7/8 H-90 b x 2-7/8 AOH P x-over, TIH w/ 20 Jnts of Spiral H-90 HWDP, 1- 2-7/8 AOH b x 2- 7/8 H-90 x-over, TIH to 5,384' (150 Jnts). R/u wireline and Orientate whipstock @ 88.91, tag BP @ 5,389' & set anchor w/ 10-K down & pull up 8-K over to make sure anchor is set & pull wire line up to 500', sat down 30- K to shear anchor. R/dn Wire line. Crew change @ 0600, Fill out JSA & safety topic, pinch point & hand placement, R/u swivel and start circ.</p>
11	10/20/2012	10/21/2012			<p>Crew change @ 0600 Hrs, Fill out JSA & safety topic, pinch point & hand placement, R/u swivel and Start circulating. Mill 6' from 5,374.93 to 5,380.93, had to shut dn the rig pump, to replace valve seat. Replaced valve seat on pump. Get circ, continue milling out window. Swivel unit shut down, no diesel in tank, fill the tank up, rig crew don't have a primer pump. Called Eddie w/ weatherford, let him know what's going w/ his unit and He said he'll sent somebody out to fixed it. while were waiting on weatherford, Took diesel filters off, found out, need to replace diesel filters, don't have any diesel filters on loc. So we rinse it out w/ diesel & put filters back on engine & prime up the diesel (putting air to diesel tank) and got it started. Crew change at 1800 hrs, Fill out JSA Continue milling out window, got 4' rat hole, mill stoped making hole, went ahead & ream the window until we were able to go up & down with out any drag, talk to Baker tool hand & Directional hand and decided to TOO H & TBIH w/ 6.25 Bit to drill out 2' more. lay dn swivel. Stewart & stevenson work on swivel unit & leaking oil from motor. TOO H w/160 Jnts.</p>

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Report Number	Start Date	End Date	Day Total	Cum To Date	Summary
12	10/21/2012	10/22/2012			Crew change @ 0600, Fill out JSA & safety topic, hand placement. Continue TOOH & lay dn Mill Tools. TBIH w/ 6.25 Bit & 170 Jnts. Got a called from Eddie w/ Weatherford, saying that the swivel unit motor is shock and he don't have another swivel in shop. So I called, High Tech, No answer, left a message, Called Knight and they have a 3.50 Swivel. I called Donnie and him told about the swivel. Attempt to get circulation, rig pump went down, Fixed pump (couple springs went out). Start up the pump, Got circ, drill out 2', total 7' into formation. Pull up above Whipstock. Circulate hole for 1 hr. R/dn swivel w/ 1 Jnt. Crew change at 1800 hrs, Fill out JSA. TOOH w/ 6.25 bit. Crew took a break. P/u Hughes/ STX-30DX Bit- .75, 1- motor 7/8 2.0 Stage- O.D.- 5.06, UBHO- O.D.-4.75 (1) Monel O.D.-4.50, (2) Monel O.D.-4.75 Total BHA= 89.92, & pres test String, Leaking from set screw on UBHO Sub. Wait on Gyro/data UBHO Sub from Farmington For 2- Hrs. N/u UBHO Sub, Pres Test String, Good.
13	10/22/2012	10/23/2012			On the MCU M-14, capital expense project, Four Corner Well Services Rig #5, 0600, crew change, fill out HJSA w/crew, talk about job task, RIH w/BHA on drill pipe, pinch points an house keeping were discussed, clean up floor, continue to RIH w/BHA, on 10 stands of 2 7/8" heavy weight, spiral drill pipe, 30 stands of 2 7/8" AOH drill pipe, bit to 2600', set DP in slips, RU TiW, RU flow tee, RUKelly, RU pump, pump thru motor, 800# press, good signal, shut down pump, RD kelly, flow tee, TiW, cont to RIH with 44 more stands of 2 7/8" AOH DP, bit to 5378', PU and RUpower swivel, ru wireline lubricator on swivel, run wire thur swivel, set gyro in joint # 169, pu with swivel, rih with gyro, stop gyro @2500', test gyro, working good, cont to rih w/ gyro to 5378', tested gyro, working good, pump thru motor, could not get rate or press needed to start drilling with rig pump, call out for a second pump, Call Donnie Trimble inform on situation, shut down wait on pump, 01800 crew change, HJSA w/crew, talk about ru second pump, strike zone while rigging up, were discussed, wait on pump. Pump delivered, 02200, spot in, rig up pump, start up press up, found leak on discharge line, 2" nipple on 6" well flange was wash out, call out welder, waited for welder, welder on location 0300, welded new nipple on flange, crew rig flange back on to pump. 0600 crew change.
14	10/23/2012	10/24/2012			On the MCU M-14, injector, capital expences, Four Corners Well Service Rig #5, 0600, crew change, hjsa w/crew, talk about job task, drilling open hole, communication was discussed, start pumps, pump thur motor with prod. water, psi to 1950#, 200 gals per min rate. start drilling, went thur window okay at 5383', slide drill from 5389' to 5413', ran survey, pu gyro to surface, made connection, joint #170, rih w/gyro, bench mark @2500' gyro working, check every 500' to 5000', gyro working, tag up an slide drill from 5413' to 5416', lost signal from gyro, would not reset, pooh with gyro, replace, rih, bench mark @2000', 3000', 4000', 5000', good signal, start drilling, slide drill from 5416' to 5421', survey, returns show sand an shale rock. 01800 crew change, hjsa w/crew, talk about rigging down wireline, suspended loads an tag line were discussed, pooh with gyro, lay down, rig down wireline, move out. est cir, 1950# psi, 200 gals min., slide drill from 5421' to 5429', survey, time drill from 5429' to 5444', survey, returns rock, slide drill from 5444' to 5473', survey make conection Jnt.#171, est cir, 1950# pump psi, 200 gals /min, 92.8 az., 4.8 degrees decline, rop 9.0' hr, slide drill from 5444' to 5505', returns fo rock an sand, 0600 crew change.

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15	10/24/2012	10/25/2012			On the MCU M-14, injector, capital expences, Four Corners Well Services Rig #5, 0600 crew change , HJSA w/crew, talk about job task, cont drilling, talk about hearing protection, made connection, pu joint # 173 with swivel, est cir. with rig pump, 1950#/200 gals min rate, slide drill to 5515', well started flowing, co2, cont to drill out to 5525', well started flowing back fluids, pu bit off bottom, shut down pump, shut in well psi to 200#, one hour si 700#, 2 hrs 950#, call eng. call Donnie Trimble, talk about stuation, will kill well , pooh with mud motor, rih with bit cont to d/o @1200 si 1250#, 10# delivered to location, open csg psi thur choke, pump 200 bbls ran survey during pumping, psi down to 150#, cont to flow back thur choke, shut down pump, drill pipe 0#, rd swivel, ru elevator, pooh with 6 joints 2 7/8" AOH DP, bit to 5347'. add tiw, flow tee, fcp down to 0#, 01630, shut in well, 01800 , sicmp 950#, crew change,hjsa with crew, talk about loading hole with 13.3# mud, an windy conditions. 13.3# mud delivered, sicmp 1100#, open csg thur choke start pumping mud, pump 185 bbls,13.3# mud, shut down pump, psi to zero, watch for flow, rd kelly,flow tee, tiw, pooh with 73 stand 2 7/8" AOH dp, one single, x/o, 10 stands 2 7/8" hwy spril dp, x/o, layed down 2 7/8" ubho sub, x/o, 2-4 3/4" monels , 4 3/4" ubho sub,4 3/4" motor, 6 1/4" bit.lunch, rih 6 1/4" bit, bit sub, 10 stands of 2 7/8" hwy spril dp, x/o, 75 stands an one single, bit to 5350'. 0600 crew change
16	10/25/2012	10/26/2012			On the MCU M-14, injector, capital expences, Four Corners Well Services Rig # 5, 0600 crew change, hjsa w/crew, talk about job task,displacing mud w/ produce water, press ,possible h2s, were dicussed, water truck on location , start moving produce water, start rig pump, recovered 200 bbls 13# mud, shut down pump, rd kelly, flow tee, tiw, pu joint #172, change out stripping rubber, rih joint 172,173, 174, 175, ru swivel, pu joint #176 rih tag up @5525', est cir w/rig pump, pump pressure 400#, 120 gals /min, wob 11 poiints, d/o to 5539', cir clean, make connection, pu joint #177 w/swivel, est cir w/rig pump, d/o to 5571', rop 16'/hr, cir clean, shut down pump, make connection, pu joint#178 with swivel, 01800, crew change, talk about job task, drilling open hole, hearing protection, windy condition, were discussed, cont to drill open hole, d/o joint #178,179,180, d/o to 5665', dp psi 420#, 10 pt on bit, 66 rpm, rop 4.5'/hr, 120 gals fluids/min. 6ppm h2s at flow back tank, cir clean,0600 crew change
17	10/26/2012	10/27/2012			On the MCU M-14, injector , capital expences, Four Corners Wells Service Rig #5, 0600 crew change, hjsa w/crew , talk about job task, drill out open hole, pinch points, handplacement, an h2s, were decussed, cont to d/o , joint #181,182,183, drill from 5665' to 5741', dp psi 420#, 11 points on bit, 66 rpm, rop 15', 120 gals /min on pump. pu bit off bottom, cir well , pump psi 250#, cir clean, shut down pump, lay down one joint w/swivel, rd swivel, ru elevators, lay down 12 more joints 2 7/8" AOH dp. bit @ 5350', ru rig pump, displace well bore w/200 bbls 13# mud.,01800, crew change, hjsa w/crew, talk about job task, pooh w/tbg an bha, pinch points an h2s were dicussed, pooh with 75 stands of 2 7/8" AOH dp, 10 stands 2 7/8" hwy wt spril dp, bit sub, 6 1/4" bit.ru wireline flange, miru wireline, hjsa w/crew, talk about suspended loads, ru chem frac, rih , shot chem frac from 5675'-5685', 5657'-5667' pooh setting tool , chem frac fired okay. rd wireline mo, rih w/10 stands 2 7/8" hwy spril dp, pooh , lay down, pu an rih, bull plugged 4' X2 7/8" eue perf sub, x/o,12 joints of 2 7/8" AOH dp., treating packer, 35 stands 2 7/8" AOH drill pipe, well started flowing up dp, ru tiw, flow tee ,kelly, start flowing back dp, shut well in. wait on mud

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Report Number	Start Date	End Date	Day Total	Cum To Date	Summary
18	10/27/2012	10/28/2012			Daily report on MCU M #14 capital injector 4CWS rig #5. Crew change, 1 man short. Toolpusher will operate rig. JSA & job topic-bleed off backside, high pressures, possible H2S, CO2 & LEL. Watch wind direction and gas monitors. Baker pumping delayed w/truck problem in Farmington. Waiting on 50 bbls of 13.0 ppg mud to be delivered to use as top kill on DP. Open up CSG w/900# to FB tank on 1/4" choke. High levels of LEL, CO2 & H2S blowing back on location. Shut well. Open up @ 800 psi bleed off to 200 psi. Pump 12 bbls 13.0 ppg mud- top kill. DP on vacume. Continue TIH another 35 stds of 2 7/8" AOH DP pumping top kill every 12 stds. PU single jnts & set treating PKR @ 5344', EOT @ 5734'. Load backside w/produced water & test PKR to 1000 psi-good. Spot Baker trucks & RU hard line. Group JSA w/17 men present. Review job plan, max pressures and rates. emergency contacts, shower trailer & stop job authority. Test hard line to 5000 psi-good. Pump 17 bbls fresh water ahead @ 2.3 bpm to 951# to load DP & shut down. Open bypass & spot 34 bbls 28% HCl acid f/EOT to depth of 5468' and shut in for 1 hr. Continue pumping last 114 bbls acid @ 3.0 bpm w/ max pressure of 205# w/average of 66 psi. Displace w/26 bbls @ 3.8 bpm fresh water to EOT and shut in f/2hrs. ISIP of 0# on a suction. Monitor pressure. Crew change @ 1800 hrs. JSA and job plan. Topic-flowing back acid stimulation-watch gas levels, monitors and wind directions. Releasing PKR & TOO. Check DP, still on vacume. Open up to FB tank & monitor-no flow. Bleed off 500# on backside and release PKR. No flow on well. LD 12 single jnts & TOO to 1673'. Kick & flow on CSG of 250 psi to FB tanks. Choke back & pump 95 bbls produced water-DP 0#, CSG It blow. SI, wait f/prod water. TBG 200#, CSG 280#. Pump 20 bbls DP. Continue TOO & LD PKR. TIH to 2526' w/kill string. SI well in, wait on Weatherford/metalskin tool hand. Crew change @ 0600 hrs.
19	10/28/2012	10/29/2012			Daily report on MCU M #14 capital injector 4CWS rig #5. Crew change JSA & job plan-forklift ops, killing well & PU BHA f/TIH with mill run to prep flower metal skin install. Use spotters & tag lines. Pinch points, caught in-between and teamwork. First day f/new floor hand on crew. Move & strap 4 -3 1/2" DC's. Weatherford called to inform that tool hand held up in Denver airport. Farmington tool hand leaving town to start job. Csg 500# & DP 425#. Bleed off Csg thru choke manifold & start pumping produced down kill string, well killed. TOO 36 stds 2 7/8" f/2526' to surface. SI well. Tool hand on loc @ 1030 hrs. Spot trailer, unload & tally all metal skin equipment. PU 1st 3 1/2" DC & MU bit sub, scraper, melon mill & 6 1/4" bit. PU 3 more DC's & start TIH. Tag solid 84' in. PU pwr swvl & RU to rotate & dress Csg w/6.3035" OD mill. No progress. Call Jim Styler to inform. Call f/6.25" OD mill f/town (no tapered mill available, will run w/bit again). TOO & LD BHA & DC's. Wait on new mill. Mill on location @ 1730 hrs, unload. Crew change @ 1800 hrs. JSA & job plan-MU mill BHA, TIH & TOO. Keeping well killed-H2s & gas present. Start MU BHA w/6.25" OD mill. Problem-did not send different xo's required f/scraper to mill & mill back to 6 1/4" bit. Wait for xo's to arrive. Tool hand & crew continue to MU metalskin assembly & rack back in derrick during down time. Mill on loc @ 2030 hrs. MU BHA, DC's & TIH to 5171'. RU pwr swvl, PU 6 single jnts & rotate to a depth of 5360'. RD pwr swvl. Break to eat. LD 6 single jnts. TOO to surface & LD mills. Crew change @ 0600 hrs.
20	10/29/2012	10/30/2012			Daily report on MCU M #14 capital injector 4CWS rig #5. Crew change @ 0600 hrs, JSA & job topic-PU metalskin BHA & TIH. First time operation f/crew. Good clear communication w/tool hand. Forklift ops-use spotters & tag lines. Pinch points, caught in-between and stop job authority. MU metalskin BHA & TIH w/163 jnts 2 7/8" DP to 5343' (32' above window). Tie back on single line. RU Wilson Services pump truck. Pump up to 4500# & release pressure. Strip thru & set metalskin liner pulling 140k to 160k. Bottom @ 5343', top @ 5274'. Liner specifications as follows; OD-6.166", ID-5.678", Drift-5.458", Burst of 5000# & Collapses of 3390#. RD Wilson Services & release. Break to eat. Go back to double line and TOO 81 stds. LD metalskin equipment & 1 single. Secure well. Crew change @ 1800 hrs JSA & job topic-TIH w/injection PKR, TOO, TIH w/RBP, TOO. Pinch points, teamwork, derrick man 100% tie off & forklift ops. Use spotters & tag lines. Move organize & store Weatherford equipment for use on upper metalskin. PU 7" Arrowset 1x injection PKR w/plug in place & TIH 168 jnts 2 7/8" DP. Set w/elements @ 5313.52' (30' f/bottom of metalskin), pull 30k to set. RU & load backside w/produced water. SI and pressure test PKR to 1000#-good test. Bleed off and LD 117 single jnts of 2 7/8" DP on racks & move to pipe float. Crew change @ 0600 hrs.

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Well Name: McElmo Cr M14

API Number 43037159630000	Section 6	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time 10/19/1965 00:00	Rig Release Date/Time		

Report Number	Start Date	End Date	Day Total	Cum To Date	Summary
21	10/30/2012	10/31/2012			Daily report on MCU M#14 capital injector 4CWS rig #5. Crew change @ 0600 hrs. JSA & job topic- was TIH w/RBP-pinch points, teamwork & proper backup on tongs to prevent slip cuts. TIH to 1616' & set RBP. Release & circulate fresh water to clean wellbore. Dump sand on top of RBP. LD 4 singles & TOOHH 22 stds to surface. RU Blue Jet-group JSA, review depths & hazards. Turn phone's off. Stay clear of wireline operations. RIH w/2' gun, perforate f/1565' to 1567' w/4 spf, come out w/WL, all shots fired good. RD WL & release. RU to circulate thru Braden head. Start pumping @ .5 bbl/min w/pressure of 1000#, pump total of 100 bbls without circulation. Called to inform Jim Styler. RD off Bradenhead . Crew change @ 1800 hrs. JSA & job topic-TIH w/CICR, good communication w/tool hand, & pinch points. TIH & set CICR @ 1454'. Wait on Haliburton to arrive. Spot & RU hardline & water supply. Group JSA-12 men present. Review job, max pressure's, emergency numbers, Lat & Long. Possible high pressures & stay clear of hardlines & trucks. Pressure test to 3000#-good. Start w/20 bbl water ahead. Established good circulation @ 1.3 bpm. Pump 500 SKS 1.91 YLD, 170 bbls of 12.4# lead cmt. Had cmt returns after 117 bbls. Pump 50 SKS, 1.15 YLD, 10.2 bbls 15.8# tail cmt. Displace w/6 bbl water. Sting out leaving 1/2 bbl on CICR. Had 63 bbls of cmt returns. RD Haliburton off DP. Rack 1 std in derrick & reverse circulate 12 bbls water until clean. RD & release cmt crew. TOOHH to surface. Secure well. WOC f/24 hrs.
22	10/31/2012	11/1/2012			Daily report for MCU M #14 capital injector 4CWS rig #5. Crew change @ 0600 hrs. WOC. JSA & job topic-service rig & equipment, power wash equipment & housekeeping. Shut down all equipment before any service work, slick surface's & trip hazards. Service rig unit & rig pump. Power wash rig, pump, closed loop pit system & catwalk. Inventory & record S/N on Weatherford rental equipment. Crew change @ 1800 hrs. JSA & job topic-power wash derrick, 100% tied off. RU flow line f/mud cross to gas buster, fall protection. Move & tally DC's, forklift ops use spotters. Start task, completed all. MU 6 1/4" junk mill, xo sub on first 3 1/2" DC. PU total of 6 DC's & TIH w/2 7/8" AOH DP. Tag up @ 1435'. RU power swivel. Establish circulation @ 3 BPM w/fresh water. Start milling-WOB 2-3K, 60 RPM w/CP of 500 psi. Returns of fine CMT cuttings.. Mill f/1435' to 1455' jnt #41. Crew change @ 0600 hrs
23	11/1/2012	11/2/2012			Capital Side track & Recompletion. Crew change @ 0600 hrs. Safety mtg, Fill out JSA. Continue to mill out CICR @ 1,454' w/ 4 points on mill & 1500 torque on swivel, mill out CIRC on Jnt-41 (11 -hrs on milling out CICR) & continue milling out cmt to 1,530'.on Jnt-43 (Avg time 3- hrs per Jnt).Crew change @ 0600 Hrs. CICR @ 1,454' & RBP @ 1,613'
24	11/2/2012	11/3/2012			Capital Side track & Recompletion. Crew change @ 0600 hrs. Safety mtg, Fill out JSA. Continue milling out cmt to 1,568'.on Jnt- 44. N/dn Swivel. TOOHH w/ Junk Mill, lay it dn, TBIH w/ 6" fishing magnet, Tag Cmt. & TOOHH w/ pieces of CICR, TBIH w/ fishing magnet & P/u Swivel, Circ w/ 1200 psi on pump for 30 min. N/dn Swivel, TOOHH w/ Magnet (Big chunks of CICR), Crew change @ 1800 Hrs, Safety mtg, Fill out JSA, TBIH w/ magnet, P/u Swivel & Circ w/ 1200 psi on pump for 30 mins, N/dn swivel, TOOHH & lay dn Fishing magnet (small pieces of CICR).TBIH w/ 6 1/4" Bit. Tag & N/u Swivel w/ Jnt -45, Got circ, Drill out end of cmt.@ 1,611'. Pres test Csg @ 1,100 psi for 30 mins, slow leak, Bled pres off, pres back up to 1,100 psi for 30 mins, tested Good, Bled pres off, Circ clean w/ P/w for 1- Hr. N/dn swivel. TOOHH & lay dn Fishing magnet, P/u Bit, scraper & String mill, TBIH dn to 1,600', Crew change @ 0600 Hrs.

RESOLUTE

NATURAL RESOURCES

Daily Activity and Cost Summary

Well Name: Mcelmo Cr M14

API Number 43037159630000	Section 6	Township 41S	Range 25E	Field Name McElmo Creek	County San Juan	State/Province Utah	Wellbore Config Vertical
Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time 10/19/1965 00:00	Rig Release Date/Time		

Report Number	Start Date	End Date	Day Total	Cum To Date	Summary
25	11/3/2012	11/4/2012			On the MCU M-14, capital project , injector, Four Corners Well Service Rig #5, 0600, crew change, hjsa w/ crew, talk about job task, pooh w/ drill collars an laying down, pinch points, were discussed, pooh with 23 stands of 2 7/8" AOH dp, 6 - 3 1/2" drill collars, lay down . RIH w/retrieving head, on 51 joints 2 7/8" AOH dp, to 1600', ru swivel, , start rig pump, cir sand off of RBP, shut down pump, latch an release RBP with swivel, rd swivel, hang back, ru elevators, pooh with 7 joints of 2 7/8" aoh dp, lay down, pooh with an stand back 22 stands,lay down RBP an retrieving head. Change over tools to run metal skins, tongs an elevatoers, ru metal skins, pu an rih with two metal skins, made up an rih setting tool, two joint 2 7/8" eue tbg, x/o to 2 7/8" AOH, crew change @1800, hjsa w/crew, talk about job task , rih with dp, setting metal skins, pinch points an tag lines were discussed.Rih w/21 stands 2 7/8" AOH dp., pu one single, ru tbg swivel rih, spot metal skin patch @ 1532' thur 1602', ru pump truck to tbg swivel, pump up an set anchor w/ 4500#, twice, set metal skin , set 55' w/ rig , than jack last 15' with pump truck. lay down three joints, rd tbg swivel an pump truck, pooh with 38 joints of 2 7/8" AOH lay down, move to trailer, lay down BHA, load out weatherford tools, move out. move over 90 joints 2 7/8" TK fiberline w/kc couplings, tally, rih with on/off tool, nickel coated nipple, 105 joints 2 7/8" TK tbg, 3360', 0600 crew change,
26	11/4/2012	11/5/2012			On the MCU M-14, injector, capital expences, Four Corners Well Service Rig #5, 0600, crew change, hjsa w/crew, talk about job task rih with TK tbg, pinch points an handplacement were decussed,cont to rih with 68 more joints on/off tool to 5308', ru rig pump, cir top of plug, shut down pump, close pipe rams , pressure csg up to 1000#, (mock mit) held for 30 mins, , good test , bd, displace csg with 220 bbls packer fluid, space out tbg, pu tbg hanger add on stainless seat nipple an tiw valve, set in hanger latching on/off tool, 10k on tbg hanger, 18k on packer, set lock downs, rd power swivel, ru rig pump to csg, press to 1050#, mock mit, held for 30 mins, good solid test. bd pressure, rd tongs,slips,gaurds,ladder,floor,bop stack,add new ring gasket, remove tiw from hanger, ru well head an master valves, test seal to 2000# good test, bd pressure, miru slick line unit, ru to well head, rih with spear to 5200", ru rig pump to tbg, pressure up to 1200#, cont to rih with spear tag up plug 5321', pierces plug , tbg went on vacuum, pooh w/spear,01800, crew change, hjsa w/crew talk about job task, recover plug an start rigging down equipment,teamwork was decussed, ru overshot, rih latch an retrieve 1.81" F-plug. pooh, shut in well, rd slickline, move out, rd equipment, haul off fluids , equipment an rig ready to move.
27	11/5/2012	11/6/2012			On the MCU M-14, injector capital expence, Four Corner Well Service Rig #5, 0600 crew change, hjsa w/crew, talk about job task, scoping down derrick, moving rig, talk about teamwork, miru super sucker, start cleaning out mud pits, haul off three loads of water, untie guy lines, scope down derrick, tie up guy lines on rig, drive off of rig ramp, Dawn Trucking on location 01200, hjsa w/ drivers, talk about route an speed, spotters., road rig to location, load out rig ramp, move to location, finish cleaning out mud pit, found out cement was set up in flow back tank,
28	11/12/2012	11/12/2012			Material transported by 3 Rivers, 146/159/149, Disposed of cement and drill mud

McELMO CREEK UNIT # M-14

GREATER ANETH FIELD

2086' FNL & 778' FEL

SEC 6-T41S-R25E

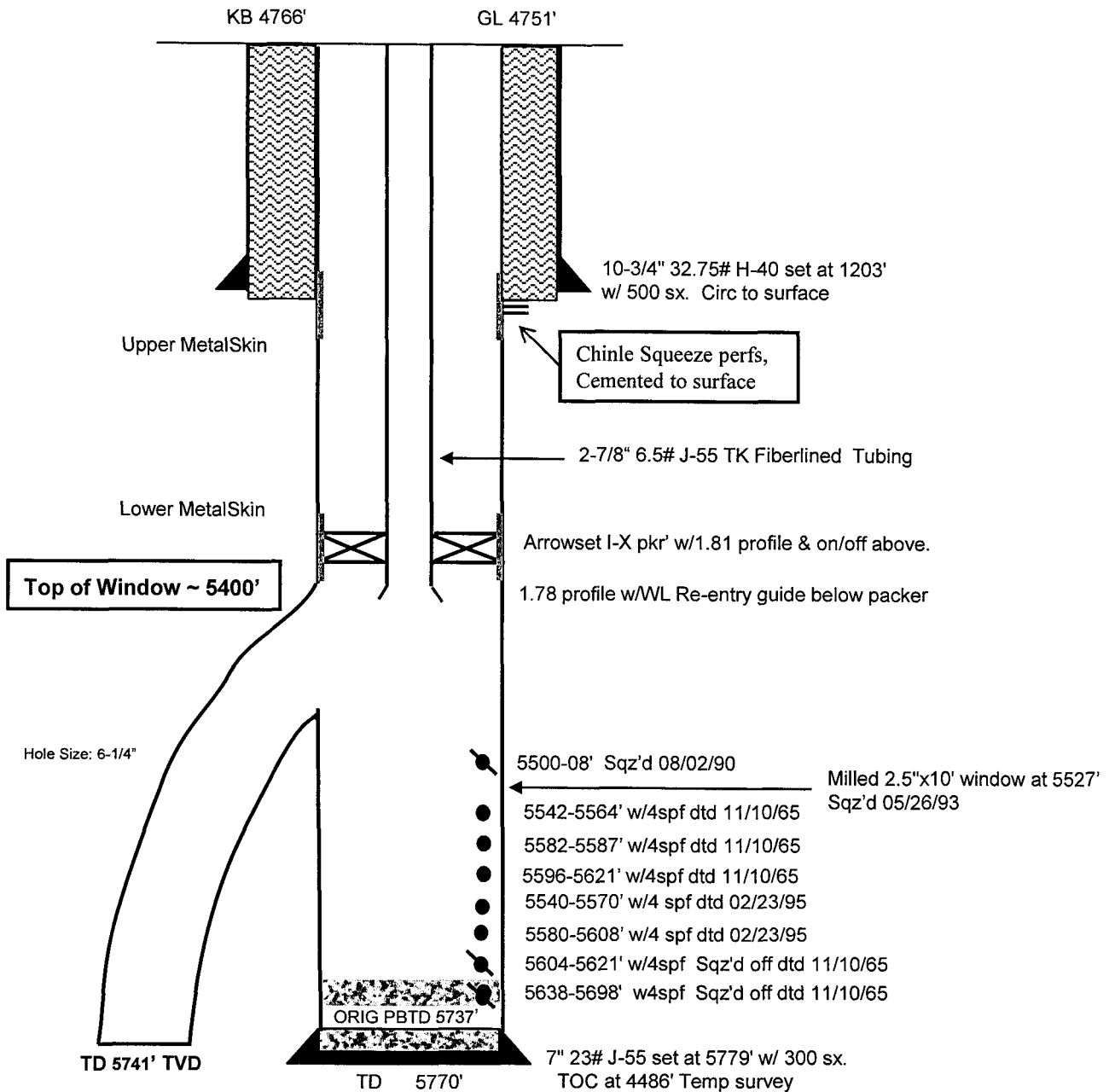
SAN JUAN COUNTY, UTAH

API 43-037-15963

PRISM 0000308

INJECTOR

Attachment 2: Wellbore Sidetracked to DC-IIC, Open Hole Completion



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420603372
1. TYPE OF WELL Water Injection Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES		7. UNIT or CA AGREEMENT NAME: MCELMO CREEK
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202		8. WELL NAME and NUMBER: NAVAJO C 42-6 (MCELMO M-14)
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2086 FNL 0778 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 06 Township: 41.0S Range: 25.0E Meridian: S		9. API NUMBER: 43037159630000
9. FIELD and POOL or WILDCAT: GREATER ANETH		COUNTY: SAN JUAN
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/28/2013	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input checked="" type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute proposes to perform UIC repairs on the subject well.
 Attachments include the proposed procedure and well bore diagram.
 Work is expected to commence 10-28-13.

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: October 15, 2013

By: *Derek Quist*

NAME (PLEASE PRINT) Sherry Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A	DATE 10/15/2013	

RESOLUTE
NATURAL RESOURCES
McElmo Creek Unit M-14 Injector
2089' FNL, 773' FEL
SENE section 6-T41S-R25E
43-037-15963

UIC repair

Job Scope

Job Scope: Pressure test to attempt to identify the leak location. Pull tubing & packer. Clean out to PBTD. Replace 2-7/8" tubing & packer.

Procedure

NOTE: Set a wireline plug below the packer and pressure test the tbgr & csg annulus to attempt

1. MIRU WSU, LOTO, backflow the well to reduce pressure. Establish KWF.
2. Kill well as necessary.
3. ND WH, NU BOPE.
4. PT BOP against landing donut.
5. J-off packer, circulate KWF.
6. POOH, LD 2-7/8" TK Fiberline tbgr. On-off tool at ~5313' KB. Inspect for coupling and on the trip out.
7. If necessary, pending WL work outcome, PU workstring tubing and TIH to recover the Arrowset 1-X packer.
8. RIH w/replacement Arrowset 1-X packer w plug in place, depending on step 7. Set pkr at ~
 - 8a. Packer detail from bottom. WL entry nipple, 1.78" ID R profile nipple, 6' pup jt, Packe
9. Jay off packer & circ packer fluid up backside.
10. Perform mock MIT on csg annulus to 1000 psi for 30 min.
11. POOH & LD workstring.
12. PU new 2-7/8" TK Fiberlined tubing w/KC couplings and on/off tool.
 - 12a. Include a 1.87" ID F profile nipple just above the On/Off connector skirt.
13. Jay onto packer, space out & land tubing. Perform mock MIT after landing tbgr.
14. ND BOP, NU WH.
15. MIRU slickline unit. Test lubricator to 2500 psi.
16. RIH gauge ring, shear plug, and retrieve plug. RDMO slickline unit.
17. RD WSU.
18. Schedule MIT w/NNEPA.
19. Notify the Area Production Supervisor that well is ready to return to injection.
20. RDMOL.

it to identify the leak source.

ther leaks

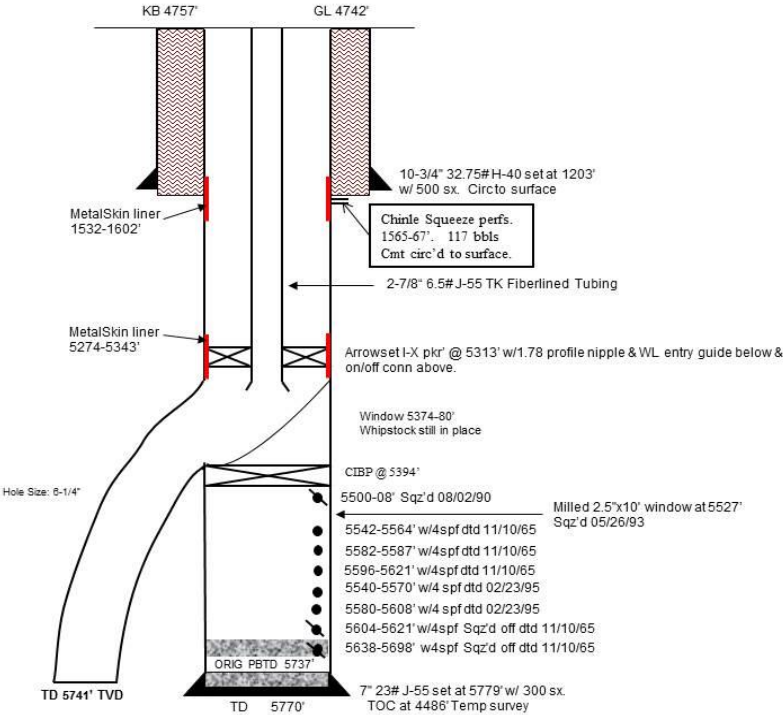
-5315' KB.

r, T-2 On/off connector w 1.81" ID F profile.

McELMO CREEK UNIT # M-14
GREATER ANETH FIELD
2089' FNL & 773' FEL
SEC 6-T41S-R25E
SAN JUAN COUNTY, UTAH
API 43-037-15963
PRISM 0000308

INJECTOR

**Current Wellbore
Sidetracked to DC-IIC,
Open Hole Completion**



G.L.M. 10/28/02 MCU # M-14
WLA 10/15/2013

Permian Summary Report: Mcelmo Cr M14
Date printed: 10/15/2013

Well Header									
API Number 43037159630000		County San Juan		State/Province Utah		State File No. McElmo Cr			
Basin Paradox Basin		Field Name McElmo Creek		Orig NB Elev (ft) 4,759.00		Ground Elevation (ft) McElmo Cr		Working Interest (%) 71.25	
Regulatory Spd Date 10/19/1965		Total Depth Date		Rig Release Date/Time		First Production Date		Abandon Date/Time	
Vertical - McElmo Cr M14, 10/15/2013 9:52:59 AM									
Wellbore Information									
McElmo Cr M14									
Start Depth (ft/s)		Total Depth (ft/s)		5,770.00		Kick Off Depth (ft/s)		Kick Off Method	
Section Description		Size (in)		13 3/4		Act Top (ft/s)		Act Bot (ft/s)	
Section Description		Size (in)		9		Act Top (ft/s)		Act Bot (ft/s)	
Casing Information									
Casing Description		Set Ds		Run Date/Time		OD (in)		ID (in)	
Surface Casing		1,203.0		2/26/1959		10 3/4		10.192	
Casing Description		Set Ds		Run Date/Time		OD (in)		ID (in)	
Production Casing		5,770.0		2/26/1959		7		6.366	
Cement Information									
Description Primary Single									
Top Depth (ft/s)		4,486.0		Bottom Depth (ft/s)		5,770.0			
Fluid Type		Lead		Amount (sacks)		250			
Fluid Type		Tail		Amount (sacks)		60			
Description Primary Single		Top Depth (ft/s)		Bottom Depth (ft/s)		1,203.0			
Fluid Type		Displacement		Amount (sacks)		500			
Description Plug		Top Depth (ft/s)		Bottom Depth (ft/s)		5,770.0			
Fluid Type		5,737.0		Amount (sacks)		5,770.0			
Description Plug		Top Depth (ft/s)		Bottom Depth (ft/s)		5,698.0			
Fluid Type		5,631.0		Amount (sacks)		5,698.0			
Perforations Information									
Date		Top (ft/s)		Bot (ft/s)		Zone		Entered Shot	
5/26/1993		5,527.0		5,528.0				Current Status Squeezed (5,527.0 - 5,528.0)	
Date		Top (ft/s)		Bot (ft/s)		Zone		Entered Shot	
11/10/1965		5,540.0		5,570.0				Current Status Open (5,540.0 - 5,570.0)	
Date		Top (ft/s)		Bot (ft/s)		Zone		Entered Shot	
2/23/1995		5,542.0		5,564.0				Current Status Open (5,542.0 - 5,564.0)	
Date		Top (ft/s)		Bot (ft/s)		Zone		Entered Shot	
11/10/1965		5,580.0		5,608.0				Current Status Open (5,580.0 - 5,608.0)	
Date		Top (ft/s)		Bot (ft/s)		Zone		Entered Shot	
2/23/1995		5,582.0		5,587.0				Current Status Open (5,582.0 - 5,587.0)	
Date		Top (ft/s)		Bot (ft/s)		Zone		Entered Shot	
11/10/1965		5,596.0		5,621.0				Current Status Open (5,596.0 - 5,621.0)	
Date		Top (ft/s)		Bot (ft/s)		Zone		Entered Shot	
11/10/1965		5,604.0		5,621.0				Current Status Open (5,604.0 - 5,621.0)	
Date		Top (ft/s)		Bot (ft/s)		Zone		Entered Shot	
11/10/1965		5,638.0		5,698.0				Current Status Open (5,638.0 - 5,698.0)	
Stimulations Information									
Date		Type		Zone		Proppant #/ft			
Tubing Information									
Tubing Description		OD (in)		ID (in)		WT (lb/ft)		Set Depth (ft/s)	
Tubing - Injection		2 7/8		2.125		6.50		5,229.0	
Item Description		2 7/8		2.125		6.50		J-55	
Tubing - Injection		2 7/8		2.125		6.50		J-55	
Item Description		2 7/8		2.125		6.50		J-55	
Tubing Hanger		2 7/8		2.125		6.50		J-55	
Item Description		2 7/8		2.125		6.50		J-55	
Tubing Pup Joint		2 7/8		2.125		6.50		J-55	
Item Description		2 7/8		2.125		6.50		J-55	
Tubing		2 7/8		2.125		6.50		J-55	
Item Description		2 7/8		2.125		6.50		J-55	
Cross Over		2 7/8		1.990		WT (lb/ft)		Grade	
Item Description		2 7/8		1.990		WT (lb/ft)		Grade	
T-2 On-Off Tool/profile nipple		2 7/8		1.810		WT (lb/ft)		Grade	
Item Description		2 7/8		1.990		WT (lb/ft)		Grade	
Cross Over		2 7/8		1.990		WT (lb/ft)		Grade	
Item Description		2 7/8		1.990		WT (lb/ft)		Grade	
AS-1X Packer		7		1.990		WT (lb/ft)		Grade	
Item Description		2 7/8		1.990		WT (lb/ft)		Grade	
Cross Over		2 7/8		1.990		WT (lb/ft)		Grade	
Item Description		2 7/8		1.990		WT (lb/ft)		Grade	